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ESTABLISHED 1881

# W. GROSSMANN & SON

## 1922 Catalogue



BONNIE BEST TOMATO

13-15 Bollingbrook Street  
Petersburg, Va.

The Petersburg Seed House

## VEGETABLE PLANTS

The supply and quantity of frostproof cabbage plants is dependent on the severity of the Winter, and price is regulated accordingly. From present outlook prices given below will rule, but should conditions improve we will give our customers the benefit of the lower price at time of order.

**Cabbage Plants.**—Early varieties ready February, March, April. Late varieties in June and July. Early varieties for Fall planting ready October and November.

Per 100, 40c; per 1000, \$2.25, postage prepaid. By express, \$2.00 per 1000, f. o. b. Petersburg.

**TOMATO PLANTS.**—Ready April, May, June and July. Transplanted and hardened plants, 30c per doz.;

\$2.50 per 100. Transplanted plants in cold frames, 75c per 100; \$3.50 per 1,000. By express, f. o. b. Petersburg.

**EGG PLANTS.**—Ready May and June. Hardened and transplanted. 35c per doz. \$2.50 per 100, postpaid.

**PEPPER PLANTS.**—Ready May and June. Hardened and transplanted plants. 30c per doz. Cold frame plants, 20c per doz.; \$1.25 per 100, postpaid.

**SWEET POTATO PLANTS.**—Ready May and June. Write for prices.

**RHUBARB ROOTS.**—Strong, healthy roots. 20c each. \$2.00 per doz. postpaid.

**HORSERADISH ROOTS.**—25c per doz. \$1.00 per 100.

## BULBS FOR SPRING PLANTING

**Caladiums, or Elephant's Ear.**—Very effective for beds or groups, especially in lawns. Grows from 6 to 8 feet high, bearing immense green leaves. Price, large sized, sound, healthy bulbs, 20c each; \$2.00 per dozen by express or parcels post prepaid.

**Excelsior Pearl Tuberose.**—Desirable for their beauty and delightful fragrance. Price per doz., 40c; per 100, \$2.70 by parcel post prepaid.

### DAHLIAS

Each variety of the list quoted here is of choice and proven quality, and is well worth a place in any garden. Prices quoted are for strong, healthy tubers.

#### DECORATIVE VARIETIES.

**Prince Juliana.** Pure White. Fine form on extremely long stems. Price 35c each postpaid.

**Golden West.** Primrose yellow. The best of all cutting yellows. Price 35c each postpaid.

**Queen Mary.** Silver Pink. Excellent bloomer, best of its color for cutting purposes. Price 50c each postpaid.

**Oregon Beauty.** Oriental Red. Outer petals reflexed to stem, making a soft fluffy ball. Price 35c each postpaid.

**Blue Oban.** Lavender Blue. The nearest dahlia to blue. Price 25c each, postpaid.

#### CACTUS VARIETIES.

**Lawine.** White, with a pale pink tint. Price 20c each.

**Sequoia.** Indian Yellow. Largest of all yellow cactus dahlias. Price 30c each, postpaid.

**Juliet.** Light Pink. Very profuse bloomer. Price: 25c each, postpaid.

**Simplicity.** Pure Lavender. Price 60c each, postpaid.

#### SHOW VARIETIES.

**Snowball.** Pure white, round ball. Price 30c each, postpaid.

**Dreer's Yellow.** Finest pure yellow variety. Price 60c each, postpaid.

**Red Huzzar.** Scarlet. Large size. Price 25c each, postpaid.

**Dorothy Peacock.** True shell pink, very free bloomer. Price 35c each, postpaid.

**Manzanita.** Deep Lavender. Price 30c each, postpaid.

#### PEONY FLOWERED.

**Queen Wilhelmina.** Pure white, wide petals. Price 35c each, postpaid.

**Yellow King.** The most massive of all yellow dahlias. Price 65c each, postpaid.

**Queen Emma.** Large hollyhock pink. Price 30c each, postpaid.

**Pennant.** Red. Marked fine lines of pale white. Price 50c each, postpaid.

**Painted Lady.** Pale lavender. Prices 35c each, postpaid.

#### SPECIAL COLLECTION OF DAHLIAS.

One of each of twelve varieties of fine merit, true to color, each root labelled with color. This collection will make a fine Dahlia Bed in any garden. Price of collection \$1.50, postpaid.

### CANNAS

**Georgious and Effective Bedding Plants—Used for Round Beds or Borders.**

**Panama.**—The rich orange face of the petals are bordered with a broad edge of golden yellow; height 5 feet. Price: 15c each. \$1.00 per doz.

**Rosea Gigantia.**—Deep rich rose, almost coral carmine; height, 4 ft. Price: 20c each; \$1.50 per doz.

**King Humbert.**—Bright Orange-scarlet streaked with crimson; magnificent bronze foliage. Height 4 feet. Price: 15c each, \$1.00 per doz.

**Venus.**—Rosy pink, with well-defined border of creamy yellow. A splendid bloomer. Height 4 feet. Price: 15c each, \$1.00 per doz.

**Hungaria.**—Rose pink; free bloomer, possessing a delicate shade of color not known in any other canna. Height 3 feet. Price: 15c each, \$1.00 per doz.

**Meteor.**—Rich dazzling crimson. Height 5 feet. Price: 20c each, \$1.50 per doz.

**Eureka.**—White flowering, with beautiful green foliage. Height, 4 ft. Price: 25c each, \$2.50 per dozen.

### GLADIOLUS

**Very Showy and Popular Summer Flowers—Selected Bulbs.**

All Quoted Postage Prepaid.

**America.**—Soft lavender-pink. One of the finest for cutting. Price: 50c per doz.

**Augusta.**—One of the most popular white varieties for cutting. Price: 75c per doz.

**Mrs. Francis King.**—A striking shade of scarlet or flame color; very effective. Price: 50c per dozen.

**Halley.**—Salmon-pink, with red stripe. Price: 75c per dozen.

**Mixed Gladiolus.**—A mixture of the best varieties. Price: 40c per doz.; \$2.75 per 100.

**Baron Hulot.**—Of rare dark violet color. Very attractive. Price: \$1.00 per dozen.



# INSECTICIDES

POISONS CANNOT BE SENT BY MAIL

**CARBOLA.**—A disinfecting, germ-killing white paint recommended instead of white wash and disinfectants. Ready to use by adding water. Makes light, sanitary sweet, sweet-smelling interiors, and kills lice, mites, etc., and prevents spread of contagious diseases. Fine for hen houses, chicken coops, and other out buildings. Price, trial package, 40c postpaid. 10-lb. package, \$1.25 by express.

**MAGNESIUM ARSENATE.**—This is a splendid powder for destroying leaf-eating insects. Easy to apply, adheres well to foliage, and is very effective. Price per lb., 35c; per 5-lb. pkg., \$1.25.

**RED WING POWDER.**—For the destruction of roaches, flies, bed bugs, moths, mosquitos, ants, flees and other insects. Also destroys lice on rose bushes, chrysanthemums and other flowers and plants. Price, 30c per pkg. postpaid; 25c per pkg. not prepaid.

**RAT CORN.**—A dry powder or meal to be mixed with any food that rats and mice will eat. It is an effective poison, and the dead rats have no odor, as they are mummified by eating this poison. A most effective and sanitary Rat Exterminator. Price, 25c and 50c packages.

**PARIS GREEN.**—Very effectual for destroying potato bugs and other insects. A very strong poison, and should be used carefully. Mix one pound Paris Green to 50 pounds of Plaster, or to 150 gallons of water.

Price:  $\frac{1}{4}$ -lb. pkg., 15c;  $\frac{1}{2}$ -lb. pkg., 25c; 1-lb. pkg., 40c.

**POWDERED ARSENATE OF LEAD.**—This is undoubtedly the best insecticide known. Recommended for spraying potatoes, vegetables, tobacco, etc. Does not burn foliage. Especially recommended to our tobacco growers. Can be used as a powder or in water. Easily handled and applied.

$\frac{1}{2}$ -lb. pkg., 20c; 1-lb. pkg., 35c; 5-lb. pkg., \$1.75; 10-lb. pkg., \$2.75; 25-lb. pkg., \$5.25.

**BORDEAUX MIXTURE.**—This is a splendid insecticide as well as a promoter of growth to plants. Especially recommended for spraying tomatoes and other delicate plants. Should be used by all truckers and gardeners. To be diluted 10 to 20 times with water, and used as a spray. Price: 1 lb., 40c; 5 lbs., \$1.75.

**HAMMOND'S SLUG SHOT.**—A very effective insecticide and very popular on account of not being injurious to human beings. Recommended for roses and other flowers. Price: 1-lb. pkg., 25c; 5-lb. pkg., 50c; 10-lb. pkg., \$1.00.

**POTATO SPRAY.**—A preparation of Paris Green and Bordeaux combined. Very effective for destroying potato bugs and other insects, at the same time being a preventative against blight. Apply like Paris Green. Price: 1-lb. pkg., 40c.

**TOBACCO DUST.**—Splendid for dusting of melons, squash and other vegetables. Destroys insects and acts as a fertilizer.

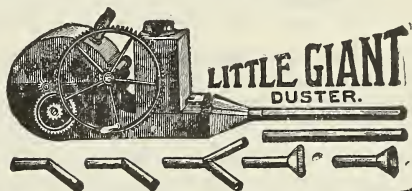
Price: 3-lb. pkg., 25c; 8-lb. pkg., 50c postpaid.

## DRY LIME AND SULPHUR SOLUTION.—

This material is identical with the lime and sulphur solution which we have been supplying our trade for spraying. It is in a dry state, and is much easier to handle, and very simple to use. Absolutely necessary for destroying San Jose Scale and other diseases of nursery stock. A one-pound can of Dry Lime and Sulphur will make five gallons of spray, ready for use. Simply dump the powder in the spray tank, and add the water.

Price: 1-lb. can, 30c; 5-lb. can, \$1.25; 10-lb. can, \$2.00; 25-lb. can, \$3.50; 50-lb. can, \$6.50.

**NIAGARA HAND DUST GUN; A PACKAGE OF NIAGARA ALL-IN-ONE MIXTURE; NIAGARA GARDEN GUIDE.**—All packed together in a carton ready to go home and put into instant use. A quick, sure and convenient way to relieve yourself of all worries over destruction to vegetables, flowers, shrubbery, house plants, etc., caused by injurious pests and diseases. Kills all pests and diseases without the use of water. No messy chemicals. Price, complete outfit, \$3.50 or \$3.75 postpaid.



**LITTLE GIANT DUSTER.**—Distributes any dry powder, like Dry Arsenate of Lead, Slug Shot and Paris Green, to perfection. Keeps the poison at a safe distance from the operator, and will dust potato plants as fast as the operator can walk, two rows at a time. One of the best appliances for tobacco growers. By turning a handle a fan is rapidly revolved, distributing the insecticides uniformly on two rows at once, and to all parts of the plant and on both sides of the leaf. Price, \$11.00.

## "BLACK LEAF 40"

Nicotine Sulphate—40% Nicotine

This is the insecticide that is so highly recommended by Experiment Stations. It destroys Aphis (plant lice), Thrips, Leaf-hoppers on all tree, bush and vine fruits, vegetables, field crops, flowers and shrubs; also Apple Red Bug, Pear Psylla and similar soft-bodied sucking insects—all without injury to foliage.

May be combined with other sprays. Highly concentrated. Soluble in water—easy to mix—does not clog nozzles. Complete directions with each package.

You can not go wrong by ordering "Black Leaf 40" for sucking insects.

### PRICES:

1 oz.	-\$0.25	-makes 6 gallons spray
$\frac{1}{2}$ lb.	1.00-	40 to 120 gals. spray
2 lb.	3.25-	160 to 500 "
10 lb.	13.75-	800 to 2500 "



## IMPORTANT NOTES AND SUGGESTIONS

**HOW TO SEND MONEY.** Remittances should be made either in the form of an Express Money Order, P. O. Money Order, Bank Draft, or Registered Letter. Postage stamps will be accepted for small amounts, provided they are carefully wrapped so as to prevent sticking.

• **Be Sure to Give Full Name and Address** with each order. Every season we get a number of orders without name of sender or Post Office, and the postmark on the envelope is often too obscure to be made out. There is no way of finding out who the senders are, consequently we are blamed, whereas the fault is their own entirely. We therefore beg our correspondents to write their name and full address on each order.

**SEEDS BY EXPRESS.** By special agreement, the Express Companies will carry Seeds from Petersburg to all points at an average rate of about 20 per cent, less than the usual merchandise rate, and a package weighing 5 pounds or less will be delivered to any Express Office in the State of Virginia, for 25 cents when prepaid. Goods wanted C. O. D. by express must have 25 per cent. of the amount accompany the order.

**ORDERS FROM UNKNOWN CORRESPONDENTS.** Customers who have no regular accounts with us will kindly remit the amount with their order, or name business reference, as customary before opening new accounts.

**We Make No Charge for Drayage** or delivery of goods to any railroad station, steamship line or express office in Petersburg. Cotton sacks only are charged for at cost. 2½ bushel Cotton Sacks are 35 cents each. All grass seed bags, excepting bags for Timothy, Herds Grass and Clover, are furnished free.

**CLAIMS.** All claims for shortage, loss or damage to shipments, must be made promptly upon receipt of goods, otherwise we cannot allow such claims.

**REMEMBER.** Our packets of seed are large and well filled, and should not be confused with the 2½ cent and 3 cent size packets sold by some dealers.

**CHANGE OF ADDRESS.** Should any of our customers change their Post Office address, we would be glad if they would advise us. It also sometimes happens that our customers receive two Catalogues: should you receive two, we would thank you to hand one to some friend who does not get one, and notify us, so that we may make the correction in our directories.

**PRICES ON FIELD SEEDS, UNION SETS AND POTATOES** are constantly fluctuating. The prices given in this Catalogue are those ruling January 1, 1922. But they may change at any time. We will cheerfully quote prices at any time on request, and we will always fill orders entrusted to us at the lowest prices possible for the best quality seeds.

**ABOUT WARRANTING SEEDS.** We exercise the greatest possible care in growing or buying, in examining, in testing, and in every department of the business to guard against mistakes and insure reliability, yet no Seedsman can, or ever does in good faith assume any responsibility for crops grown from seeds supplied by them, therefore in common with other responsible Seed Houses, we sell our goods subject to the following disclaimer, it being that adopted by the American Seed Trade Association, and all orders sent us will be filled under these conditions only. We give no warranty, express or implied, as to description, purity, productiveness, or any other matter of any seeds, bulbs, or plants we send out, and we will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.

## Parcels Post Rates for Seeds

### SIMPLE RULES FOR ORDERING BY PARCEL POST

All Seeds, Plants, Bulbs, Roots, Poultry Supplies, Insecticides, etc., can now be sent throughout the United States by Parcel Post. On weights of more than half pound, the pound rate shown in Parcel Post Table will apply. Parcels weighing half pound or less, the rate is 1c for each 2 ounces or fraction thereof regardless of distance. The points further than the Second Zone on weights of over 10 pounds the charge by freight or express is usually more economical.

### POSTAGE RATE TABLE FOR PARCEL POST PACKAGES

Ask your Postmaster or Rural Letter Carrier to tell you what zone you are in from Petersburg, Va., then refer to the table and you will know how much postage to send for mailing.

	or Fraction. First Pound	Pound or Fraction. Each Additional
Local Rate .....	5c	1c
First Zone, within 50 miles of Petersburg, Va.....	5c	1c
Second Zone, 50 to 150 miles from Petersburg, Va.....	5c	1c
Third Zone, 150 to 300 miles from Petersburg, Va.....	6c	2c
Fourth Zone, 300 to 600 miles from Petersburg, Va.....	7c	4c
Fifth Zone, 600 to 1,000 miles from Petersburg, Va.....	8c	6c
Sixth Zone, 1,000 to 1,400 miles from Petersburg, Va.....	9c	8c
Seventh Zone, 1,400 to 1,800 miles from Petersburg, Va.....	11c	10c
Eighth Zone, all over 1,800 miles from Petersburg, Va.....	12c	12c



## Quantity of Seed Required for 100 Feet of Row

Asparagus .....	1 ounce	Lettuce .....	½ ounce
Beans, Snap .....	1 pint	Melons .....	1 ounce
Beans, Lima .....	1 pint	Okra .....	2 ounce
Beans, Pole .....	½ pint	Onion Seed .....	1 ounce
Beets .....	2 ounce	Onion Sets .....	1 quart
Cabbage .....	½ ounce	Parsley .....	½ ounce
Carrots .....	1 ounce	Parsnip .....	1 ounce
Cauliflower .....	¼ ounce	Peas .....	1 pint
Kale .....	½ ounce	Radish .....	1 ounce
Endive .....	½ ounce	Salsify .....	1 ounce
Egg Plant .....	¼ ounce	Spinach .....	1 ounce
Cucumbers .....	½ ounce	Squash .....	1 ounce
Corn .....	½ pint	Tomato .....	¼ ounce
Collards .....	1 ounce	Turnip .....	1 ounce
Celery .....	¼ ounce		

## Length of Time Required for Seed to Germinate

	Days.		Days.
Asparagus .....	6 to 8	Melons .....	6 to 10
Beans .....	6 to 8	Okra .....	7 to 14
Beets .....	8 to 14	Onion Seed .....	6 to 10
Collards .....	4 to 6	Parsley .....	20 to 30
Carrots .....	14 to 21	Parsnip .....	7 to 14
Celery .....	7 to 14	Peas .....	6 to 8
Corn .....	6 to 8	Radish .....	3 to 6
Cauliflower .....	4 to 6	Salsify .....	7 to 14
Cucumbers .....	6 to 8	Spinach .....	6 to 10
Egg Plant .....	7 to 14	Squash .....	6 to 10
Endive .....	4 to 6	Tomatoes .....	7 to 14
Kale .....	4 to 6	Turnips .....	4 to 6

Weather conditions will often cause time required to vary. The above covers the average.

## Length of Time Required for Vegetables to Mature

	Early. Late.		Early. Late.
Beans, Snap .....	45 to 55	Melons .....	100 to 120
Beans, Lima .....	50 to 60	Okra .....	90 to 120
Beans, Pole .....	50 to 75	Onions from Seed .....	120 to 150
Beets .....	60 to 75	Onions from Sets .....	90 to 120
Cabbage .....	75 to 180	Parsley .....	90 to 120
Carrots .....	60 to 75	Parsnip .....	120 to 150
Cauliflower .....	100 to 120	Peas .....	40 to 75
Celery .....	120 to 150	Pepper .....	100 to 120
Collards .....	100 to 110	Radish .....	20 to 45
Corn .....	50 to 110	Salsify .....	120 to 175
Cucumber .....	60 to 75	Spinach .....	30 to 75
Egg Plant .....	100 to 120	Squash .....	60 to 75
Kale .....	90 to 110	Tomatoes .....	100 to 150
Lettuce .....	40 to 90	Turnips .....	45 to 75

# GARDEN AND FARM CALENDAR

## JANUARY.

This month is generally a period of rest for the farmer, but a wideawake man will realize that it is also the beginning of a busy Spring season, and will make preparation to push ahead the moment work begins. He will prepare hotbeds, prune trees and grape vines, top dress asparagus, haul all the manure he can get, and plow as much land as possible; get ready for the coming season and make out a list of seeds wanted for the Spring.

## FEBRUARY.

If weather opens get ready for the early crops. Remember that **VERY EARLY** and **VERY LATE** crops bring the most money. Sow cabbage, tomato, lettuce and beet seed in hotbeds for transplanting, also sow a few early radish in same.

Towards the end of the month sow out doors early peas, spinach, and Spring kale; plant onion sets and lettuce plants. Prepare lawns and sow lawn grass, sow Winter oats and all grass and clover seeds, also rye for grazing; sow Canada peas.

## MARCH.

Outdoor work begins this month. Select light mellow soils with Southern exposure for earliest crops. Sow all kinds of garden peas, radish, beets; also parsnips, carrots, spinach, parsley, asparagus and salsify; transplant cabbage, tomato and lettuce plants; sow in hot-beds pepper, eggplant; plant Irish potatoes, asparagus and onion sets; sow Spring kale, spinach and mustard.

## APRIL.

Most all crops can be sown this month; if not already done, sow peas, onions, radishes, asparagus, beets, carrots, parsley, parsnips, salsify. Bear in mind that to be a successful gardener you must have a supply of fresh vegetables during the whole season, and to accomplish this seeds should be sown in succession. Sow celery seed in a finely prepared moist bed.

Sow all kinds of Herbs. Plant Snaps, early Corn, set out Tomato, Cabbage Lettuce and Pepper plants. Plant Irish Potatoes; prepare your land for Potatoes well, and buy only the choice, selected stock for seed as this is a very important crop. We recommend the use of fertilizer in the place of too much manure for this crop.

Bed Sweet Potato plantings. Late in the month sow Mangel Wurzel for stock. Begin planting Corn crop. Sow extra early Black-Eye Peas for market. Melons, Squash and Cucumbers can be sown, but with some risk.

## MAY.

All tender plants can be sown this month. Plant Pole Beans, Snaps, Butter Beans, Sugar Corn, Melon, Squash, Cucumber, Pumpkin, Okra, and Salsify. Set out Tomato, Pepper, Eggplants and Lettuce Plants. Sow Tomato and Cabbage seed for late crop.

Set out Sweet Potato Plants, sow Millet and Cowpeas mixed for feed. This mixture yields large crops of hay and improves the land. Sow Kaffir Corn, Sugar Corn, Black-Eye Peas, Soja Beans, Navy Beans and Buckwheat. Finish planting Corn, also Cotton and Peanuts. Sow Cowpeas for fallowing.

## JUNE.

Summer has now opened, and farmers can push ahead without fear of frost. Continue sowing and planting all varieties of vegetables to have them come in succession, always having something for the market and table. Sow Cabbage and Tomato seed for the late crop. Plant sugar Corn for late roasting ears, also Water and Musk Melons; also Cucumbers for Pickles. Prepare for late Potatoes. Sow Beets and Pumpkins for stock food for winter. If stand of Corn crop is poor, replant with early Yellow Corn, such as Early Leaming or Early Dent. Sow Cowpeas and Millett for hay; also Kaffir Corn for chicken feed and fodder. Gather Onion crop if dry enough.

Towards end of month plant late Potatoes when suitable season offers. Plant second crop of Snaps, Butter Beans, etc.

Plant Navy Beans and Black-eye Peas for Winter use. Keep Celery bed well weeded, as the plants are very easily killed by weeds.

Prepare land well for Celery by filling trenches with well rotted manure; mix thoroughly with soil and form even beds, selecting a moist bottom with heavy chocolate loam.

## JULY.

All seeds not already sown should be put in at once. Continue planting early Corn and Snaps of all kinds for late marketing. German Millet can be sown on good land. Plant out Celery plants, and if weather gets dry cover bed with fine manure to retain moisture. Also plant out late Cabbage and Tomato plants. Sow Rutabaga and early varieties of Turnips.

Finish planting late Potatoes and keep a good lookout for bugs, as they are very hard on late Potatoes. Dust with Paris Green and Slugshot at first sign of bugs. Corn can still be drilled to make fodder. Throughout the entire season your land should be kept well stirred and loosened by continual cultivating, as the moisture is better retained. If the weather should continue dry, make frequent use of your roller.

## AUGUST.

This is the month for the beginning of sowing of Fall crops. Sow all varieties Turnip seeds, also Spinach and Kale. Begin sowing German Clover; sow German Clover and Turnips together, thereby making two crops on the same land.

Cultivate well your late Potatoes and keep the bugs down. Throw a furrow or two to the Celery to get fresh moist soil next to the plants.

Turn under Cowpeas and sow a fall crop on same land. Harvest all crops matured and prepare land for next crop.

## SEPTEMBER.

Preparation for Winter crops should begin in earnest now by all means; sow as much German Clover as possible, as no other crop is of more benefit to the farmer. If your Corn crop is cultivated level, it can be sown in the cornfield either for early feed in the Spring or for fallowing, making a good fertilizer. Gather in all crops that are ready for harvest. Sow Turnips, Kale and Spinach.

Sow Cabbage seeds for plants for Spring crop about the 21st of the month. Set out Potato Onion sets; sow Winter Oats, and begin sowing Grass and Clover. Rye and Wheat can also be sown. Hill up the Celery; save all hay and feed you can, so as not to run short in Winter.

## OCTOBER.

This is about the last month any sowing should be done. Continue sowing German Clover whenever you can. A farmer's first thought should be plenty of feed for his stock; his second, how to improve his land. German Clover furnishes excellent feed in Spring when other feeds run low, and also makes a very valuable fertilizer when turned under. Gather in all crops that may still be out. Sow Winter Oats, Wheat, Grass and Clover and Rye. Plant out Cabbage plants for Spring. Plant out Trees, Vines and Strawberry plants.

## NOVEMBER.

If behind time, still sow Wheat, Rye, Oats, Grass and Clover. Prepare compost heaps for Spring, and plow up all the land you can, to allow it to freeze out well during winter. Look to your lawns; sow Lawn Grass and protect it from the cold.

See that your stock is well and warmly housed, have plenty bedding, and protect your buildings in general; gather up all tools and farming implements and shelter them from the weather.

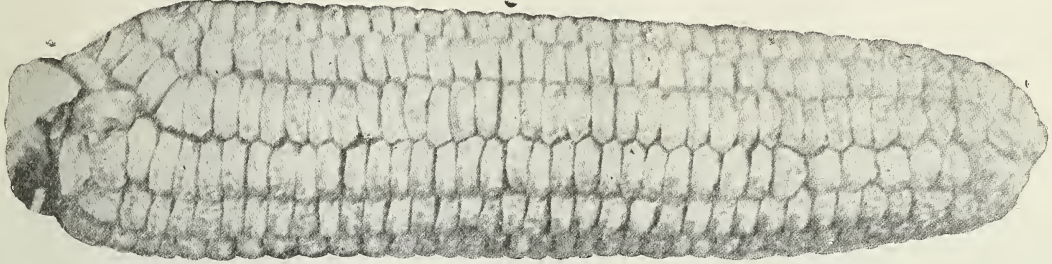
## DECEMBER.

Farm work proper is over for the year. You should continue plowing and adding compost heaps. The main attention should be given to your stock; see that stables are warm, and attend to the feeding yourself. Repair buildings, implements and fences. Have everything in good order, and you will be able to enjoy the joyous Christmas-tide.



## VIRGINIA-GROWN SEED CORN

Our stocks of Seed Corn are all Virginia grown, planted and raised especially for seed purposes, carefully selected, nubbed, fanned and graded, and will meet the requirements of the most fastidious corn grower. We have given our careful, personal attention to the selection of our SEED CORN, and we request all of our customers who really want good seed corn to call on us for samples, which we will gladly send free of charge, to compare with the general run of seed corn. While our prices may be a little higher, comparison will convince you that our stocks are worth the difference.



**BLOUNT'S PROLIFIC.**—This is one of the best prolific varieties grown, yielding from 3 to 4 well filled ears of excellent quality to each stalk. It is well adapted to our improved highlands, producing heavy yields of corn, as well as an abundance of foliage. Especially recommended for late planting, being quick in growth and early maturing. Qt. 20c; pk. 90c, postpaid. By express, qt. 15c; pk. 60c; bus. \$2.00.

**VIRGINIA WHITE DENT.**—This is the old standard variety grown throughout Virginia. Makes large ears, deep grain and rather small cob, with heavy growth of stalk and fodder, making it also a very valuable ensilage corn. Our stock is grown by one of the most careful and successful James River farmers, and will be found true to name and of very high germinating power. Qt. 20c; pk. 75c, postpaid. By express, qt. 15c; pk. 50c; bus. \$1.50.

**COCKE'S PROLIFIC.**—Considered one of the best and heaviest yielding varieties, and on good fertile soils, especially river low grounds, it will make enormous yields of both grain and feed, but we do not recommend it for the general run of high lands, as it requires a greater amount of both moisture and fertility than our uplands afford. Qt. 20c; pk. \$1.00, postpaid. By express, qt. 15c; pk. 60c; bus. \$2.00.

**EUREKA.**—This corn is bred from the Cocke's Prolific, has larger and longer ears, but not as many to the stalk. Is considered one of the best ensilage corns for good rich bottom lands, where it will grow from 14 to 16 feet with an abundance of fodder and heavy yield of corn. This corn is extensively used throughout the North and West for ensilage. We do not recommend it for thin land. Qt. 20c; pk. 75c, postpaid. By express, qt. 15c; pk. 50c; bus. \$1.75.

**HICKORY KING.**—A good corn well adapted to our thin uplands, bearing three or four solid ears to each stalk. The grain is large and broad, and cob so small that a grain of the corn will completely cover the end of it. While the ears are not large enough to place this corn in the heavy yielding class, it will give better results on poor lands than any other variety. Qt. 20c; pk. 80c, postpaid. By express, qt. 15c; pk. 60c; bus. \$1.75.

**VIRGINIA ENSILAGE.**—This corn makes a larger growth and more fodder than any other variety grown, and is largely planted, both North and South, for ensilage, for which purpose it is unequalled. Qt. 20c; pk. 75c, postpaid. By express, qt. 15c; pk. 50c; bus. \$1.50.

**CASEY'S PURE-BRED.**—This splendid corn is fast becoming a leader in Virginia. It is a pure white, deep-grain corn, of very attractive appearance, generally bearing two well-filled ears to the stalk, and is a sure crop producer. Casey's Pure-Bred has been thoroughly tested in this territory, and we unhesitatingly recommend it to our customers for general purposes and as a prize winner. Qt. 20c; pk. 85c, postpaid. By express, qt. 15c; pk. 60c; bus. \$2.00. Per bus. selected Ears, \$3.00.

**BOONE COUNTY WHITE.**—This is an early maturing, large yielding variety, suitable for uplands, and is a great favorite in some sections. It makes a large, well-filled ear with deep kernels, foliage abundant, good, strong growing stalk. Qt. 20c; pk. 85c, postpaid. By express, qt. 15c; pk. 60c; bus. \$2.00.

## Yellow Varieties

**IMPROVED GOLDEN DENT.**—This well known and popular corn yields from two to three ears of deep golden-yellow grain, does well under general conditions, and on account of its early maturity and nutritious quality has become a very valuable corn throughout the South, especially for late planting, as it can be put in successfully after the season is too far advanced for the white varieties. Qt. 20c; pk. 75c, postpaid. By express, qt. 15c; pk. 50c; bus. \$1.75.

**GOLDEN BEAUTY.**—This is an improved strain of the well known Golden Dent Corn, having been carefully bred and selected by a well known Virginia corn grower for a number of years, the result being larger and more uniform ears, well filled from butt to tip, very vigorous and heavy growth, and a sure cropper. A great corn for late planting. Qt. 20c; pk. 75c, postpaid. By express, qt. 15c; pk. 50c; bus. \$1.75.



## MAINE-GROWN SEED POTATOES

WRITE FOR CURRENT PRICES

Selected Seed Stocks, grown especially for seed purposes, by the best and most careful seed potato grower in Aroostook County, Maine. Purity and quality considered before price.

Prices on Potatoes fluctuate, and are subject to market changes.

**IRISH COBBLER.**—The favorite above all others as an extra early market potato. The tubers are large, smooth and round, meat creamy white; very few eyes, and of fine quality; a good yielder and considered the most profitable potato for market gardeners. Price per bus., \$2.50; 10-pk. bag, \$6.

**SECOND CROP IRISH COBBLER.** As the name implies, this is the second crop of same year of the Maine grown Irish Cobbler, and is planted extensively by market gardeners. Being smaller in size, the second crop will plant about one-third more ground than the first crop and many truckers claim they get better results and more potatoes. Our stock of these potatoes is exceptionally fine, but very limited in quantity. Price per bus., \$3.25; per 10-pk. bag, \$7.50.

**RED BLISS, or TRIUMPH.**—An extra early potato, round shape, pink skin, white meat, and good quality. One of the surest and most productive varieties, and highly recommended for home use, but does not sell as readily on our local markets on account of its pinkish appearance. Price per bus., \$2.50; 10-pk. bag, \$6.25.

**EXTRA EARLY SUNLIGHT.**—A pure white, extra early variety of superior quality, oblong in shape, good yielder and a favorite wherever grown. Price per bus., \$2.50; 10-pk. bag, \$6.00.

**IMPROVED WHITE PEACH BLOW.**—For second or late crop this potato is without equal; oblong in shape, pure white meat, pinkish skin and good eating quality. It is the heaviest yielding variety in cultivation, and is the one potato which never fails to bring results, and which will keep indefinitely. If planted in July in this locality it never fails to produce a good crop of fine potatoes. The Improved White Peach Blow is also known as the McCormick in some localities.

We Will Carry a Stock of Seed Potatoes in Cold Storage for Late-Crop Plantings. Prices on Application in Season.



Early Ohio.

ties. We cannot too strongly advise our farmers to plant this potato, if they want potatoes for winter use. Per bus., \$2.50; per 10-pk. bag, \$6.

**EARLY OHIO.**—Considered by many to be the finest quality potato in cultivation. Produces large size tubers, with very few small ones on vines; skin has a slightly pink tinge, smooth surface, oblong in shape, and of fine appearance. A good yielder and a good keeper. Medium early. Price per bus., \$3.00; per 10-pk. bag, \$7.00.

**HOULTON EARLY ROSE.**—The genuine Early Rose, and not to be compared with Western stocks, as it is much earlier, more prolific, and a better potato in every respect. Price per bus., \$2.50; per 10-pk. bag, \$6.00.

**GREEN MOUNTAIN.**—The favorite potato throughout the South for late planting. Large, pure white, oval shaped tubers of fine eating quality; a good yielder and keeper.

Prices on application.

## Seed Sweet Potatoes



**NANCY HALL.**—A pumpkin yam of the finest quality; early maturing and good yielder.

**WHITE YAM.**—The standard variety for general crop purposes.

**YELLOW BARK.**—A dry mealy potato of fine table quality, and much desired by those who do not like a soft sweet potato.

**EARLY REDS.**—An extra early variety, generally planted to catch the earliest market. Its quality is not considered as good as the other varieties.

**PORTO RICO.**—The finest quality of sweet potato grown. Extra early in maturity; a good yielder of good size potatoes, with very few small ones in the hill. Meat of finest quality, and sweet when dug; splendid keeper.

Prices on Sweet Potatoes fluctuate. Write for quotations in season.

ALL VARIETIES OF SWEET POTATO PLANTS IN SEASON



## GUNSON'S GRANARY FILLER OATS

### A New Extra Early Heavily Branching White Spring Oat

This wonderful Oat is the result of careful cross-breeding carried on by an expert since 1906. It has now become a permanent type, and is one of the best Oats in yield and quality. The grain is white, large and well filled, with thin hull, and is of extraordinary feeding and milling value, and usually tests from 38 to 40 pounds per bushel. This wonderful Oat has been thoroughly

tested and tried out, and we feel confident that it will prove a great acquisition to this section. As we have only a very limited quantity of Granary Filler Oats to offer to our trade, all orders will be filled in rotation, and will be accepted subject to stocks being exhausted. It requires from 1 to 1½ bushels of Granary Filler Oats to seed an acre. **Price per bus., \$2.50, sacked and f. o. b. Petersburg.**



## MUNG BEANS

### A Wonderful New Forage Crop

The Mung Bean is a new discovery in the Cow Pea or Forage Bean family, which we believe will prove of untold benefit and value to the Southern farmer, and to the Southern farms. It is a drought resisting, quick growing, easily grown bean, and one which will do well on almost any grade of soil, and under all conditions. As a hay crop Mung Bean leads the list. The plants grow straight up, and stay straight, growing from 3 to 5 feet in height, are easily cut, easily cured, and make Hay that any animal will eat. The leaves stay on the plant much better than Cow Peas, which naturally makes the hay that much better quality. As a soil improver they are unequalled. The roots are crowded with nitrogen nodules, and will enrich the soil to a greater extent than even Cow Peas or Soy Beans. Another point of advantage is that Mung Bean will give you a stand under almost any condition. If planted in a dry spell they will stay in the ground until a rain, and

will show a good germination with very little moisture.

Mung Beans should be planted in rows 2½ to 3 feet apart, and with one cultivation they will cover the entire field. Like other peas and beans, should be planted after the ground is warm—from May 1st to July 1st. Reports obtained from a number of farmers who have experimented with Mung Beans lead us to be absolutely confident and safe in our prediction that this wonderful bean will prove a great acquisition to all farmers in Virginia and Carolina. Give them a trial, and convince yourself; results will surprise and please you.

It requires four to five pounds of seed to plant an acre. We have a limited number of pounds of Mung Bean seed to offer. Try a pound or two, and save your own seed for next year.

**Price per pound, 50c, postage prepaid; 5 lbs., \$2.00, postage prepaid.**



# VEGETABLE SEEDS

## Asparagus

Asparagus succeeds best in a light, warm, rich soil, with an Eastern or Southern exposure. To grow from seed, sow in drills two feet apart, covering the seed one to two inches deep, and thin out when up and growing. Keep the plants free from weeds by thorough cultivation during the Summer. These plants should then be transplanted when one or two years old to the place selected for your asparagus bed, and can be put out either in Fall or Spring. One or two-year-old plants can be purchased to avoid delay of raising same.



**CULTURE.**—Plow trenches 10 to 12 inches deep, five feet apart; scatter well rotted manure in bottom of furrow and mix with soil, cover this with a layer of soil two inches deep and give an application of pure raw bone; on this set your plants 15 inches apart in the row, spreading the roots carefully. Then cover with soil three to four inches deep. When Winter comes cover the beds with stable manure, which fork in when Spring opens and earth up the beds to a further depth of about 18 inches. After the cutting season, allow the plants to grow, and during the following Winter the beds should be turned down with a plow and more manure and raw bone applied, then earthed up again to original height. This should be repeated each year during the life of the beds.

**PALMETTO.**—Favorite and earliest variety for Virginia. Oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 80c postpaid. Not postpaid,  $\frac{1}{4}$  lb. 25c; lb. 75c.

**CONOVER'S COLOSSAL.**—A standard variety, large and tender stalks. Oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 80c postpaid. Not postpaid,  $\frac{1}{4}$  lb. 25c; lb. 75c.

**ASPARAGUS ROOTS.**—Two years old. \$2.00 per 100 postpaid.

## Artichoke

**JERUSALEM.**—Grown from roots or tubers for stock and hog food. Plant and cultivate like potatoes; special price on large lots. Qt. 25c; pk. \$1.00 postpaid. Not postpaid, qt. 20c; pk. 75c; bu. \$2.50.

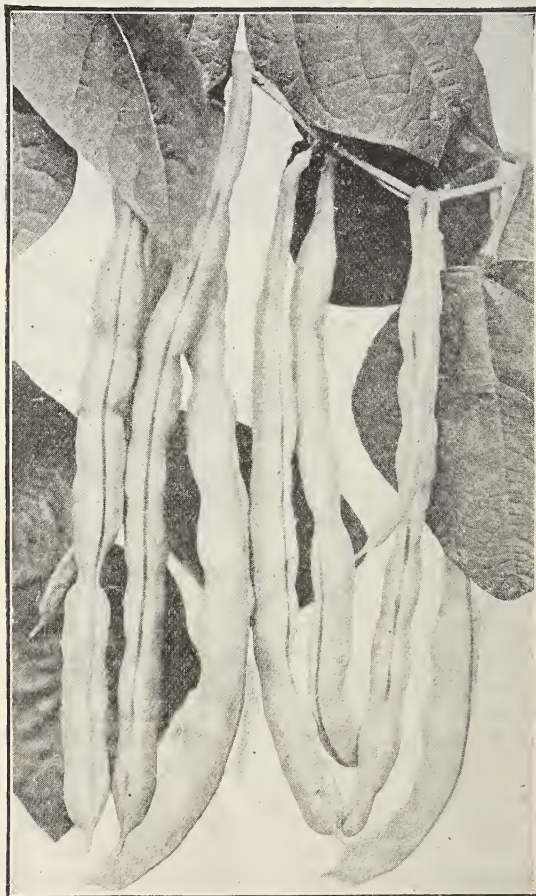
## Beans or Snaps

Snaps can be planted from about April 1st to the middle of August, and should be put in at intervals of about two weeks if a succession of fresh snaps is desired.

**CULTURE.**—Plant in rows 2 to 3 feet apart, with the beans about 2 inches apart in rows, covering to a depth of 2 inches; 1 quart will plant 100-foot drill.

**IMPROVED RED VALENTINE.**—This is the best known and decidedly the most popular bean grown by market gardeners and for family use. Pods are round, thick, and fleshy, good quality and ready to be picked seven weeks after planting. Pt. 25c; qt. 45c; pk. \$2.35 postpaid. Not postpaid, pt. 20c; qt. 35c; pk. \$2.00; bu. \$7.25.

**FULL MEASURE.**—A new prolific stringless green podded variety of excellent quality. Pods are long, round and tender. Very prolific. Pt. 25c; qt. 45c; pk. \$2.35 postpaid. Not postpaid, pt. 20c; qt. 35c; pk. \$2.00; bu. \$7.25.



Full Measure Beans.



**GIANT STRINGLESS GREEN POD.**—An exceptionally fine bean for home or market. Perfectly stringless. Longer pod than Burpee's Stringless. Good, strong, vigorous grower, and a continuous bearer for weeks. **Pt. 25c; qt. 45c; pk. \$2.35 postpaid. Not postpaid, pt. 20c; qt. 35c; pk. \$2.00; bu. \$7.25.**

**BOUNTIFUL BEANS.**—New, green podded Bush Bean, heavy cropper, very early, fine shape, stringless, good quality, hardy and productive. One of the very best Bush Beans. **Pt. 25c; qt. 45c; pk. \$2.35 postpaid. Not postpaid, pt. 20c; qt. 35c; pk. \$2.00; bu. \$7.25.**

**BURPEE'S STRINGLESS GREEN POD.**—An absolutely stringless bean of unequaled quality, extra early in maturity, and one of the best sort for market gardeners and home use. Should be in every garden. **Pt. 25c; qt. 45c; pk. \$2.35 postpaid. Not postpaid, pt. 20c; qt. 35c; pk. \$2.00; bu. \$7.25.**

**EARLY YELLOW SIX WEEKS.**—An extra early green podded variety. Very hardy. Long, straight, flat pods of fine quality. **Pt. 25c; qt. 45c; pk. \$2.35 postpaid. Not postpaid, pt. 20c; qt. 35c; pk. \$2.00; bu. \$7.25.**

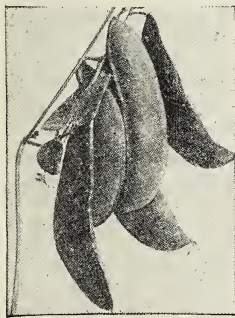
## Wax-Podded Varieties

**PROLIFIC BLACK WAX.**—One of the most popular varieties for home or market. Pods round, brittle and fine flavor. **Pt. 25c; qt. 45c; pk. \$2.50 postpaid. Not postpaid, pt. 20c; qt. 35c; pk. \$2.25; bu. \$8.00.**

**IMPROVED DWARF GOLDEN WAX.**—One of the standard wax varieties, early in maturing. Pods long, fleshy, brittle, and golden yellow in color. **Pt. 25c; qt. 45c; pk. \$2.50 postpaid. Not postpaid, pt. 20c; qt. 35c; pk. \$2.35; bu. \$8.00.**

## Dwarf Lima Beans

Plant in May after the ground has become warm. For the pole varieties use 10-foot poles in center of hills, which should be about 5 feet apart. Bush varieties should be planted in rows 3 feet apart, with the beans about 12 inches apart in rows, cover about 2 inches deep. A second planting of the bush varieties should be made in June or early part of July to get a seed supply and dry beans for Winter use, as the early plantings are likely to become wormy and unfit for seed. This is also the case with snaps, black-eye peas and beans. One quart of the large plants 100 hills; one quart of the small varieties plants 200 hills.



Burpee's Lima.

and a very desirable bean for home garden. **Pt. 25c; qt. 40c; pk. \$2.75 postpaid. Not postpaid, pt. 20c; qt. 35c; pk. \$2.50.**

**BURPEE'S LIMA.**—This is the largest of the bush varieties. Plants of upright growth, holding the beans well off the ground. Tender and of good flavor. **Pt. 35c; qt. 60c; pk. \$3.50 postpaid. Not postpaid, pt. 30c; qt. 50c; pk. \$3.25.**

**HENDERSON'S BUSH LIMA.**—The original well known small bush lima or butter bean. Earliest of all in maturing, a heavy yielder and good flavor. A prolific crop for the market gardeners.

**FORDHOOK BUSH LIMA.**—Vines strong, erect and true Bush Lima growth. Foliage heavy and very dark green in color. The stalks that produce the blossoms are thrown out from the lateral and main stalks. The pods resemble Dreer's Bush Lima, but average more than double the size and contain from 3 to 5 beans to the pod. **Pt. 35c; qt. 60c; pk. \$3.50 postpaid. By express, pt. 30c; qt. 50c; pk. \$3.25.**

## Pole or Cornfield Snap Beans

Plant in May in hills five feet apart, using an 8 to 10-foot pole in each hill. Can also be planted in the cornfield when the cornfield is laid by. One pint plants 100 hills.

**OLD HOME-STEAD, or THE KENTUCKY WONDER.**—The earliest pole bean. Enormously productive. Long, crisp, tender pods, produced in clusters. Considered the most popular pole bean grown. **Pt. 25c; qt. 45c; pk. \$2.75 postpaid. By express, pt. 20c; qt. 40c; pk. \$2.50.**

**LAZY WIFE.**—Pods broad, thick, very fleshy and entirely stringless. Very prolific, the pods retaining their rich, tender qualities for a long time. Being late to mature, this is a valuable bean for the fall season. The dry beans are also used as shell beans in the winter. **Pt. 25c; qt. 45c; pk. \$3.00 postpaid. By express, pt. 20c; qt. 40c; pk. \$2.50.**



Old Homestead Beans.

## Pole Lima Beans

**SMALL LIMA, or POLE BUTTER BEAN.**—The standard variety. Earlier and more productive than the larger limas. Sure crop, fine quality; and a general favorite throughout the South. **Pt. 25c; qt. 40c; pk. \$2.50 postpaid. Not postpaid, pt. 20c; qt. 35c; pk. \$2.25.**

**IMPROVED POLE LIMA.**—A much larger bean than the small lima, and somewhat earlier and more prolific than the standard large white lima. A good bean for general crop purposes. **Pt. 35c; qt. 60c; pk. \$3.50 postpaid. Not postpaid, pt. 30c; qt. 50c; pk. \$3.25.**

**KING OF GARDEN.**—Very large beans. Pods well filled, fine flavored; medium early in maturing, and a great favorite with market and home gardeners. **Qt. 50c; pk. \$3.50 postpaid.**



## Beets

For very early crops, sow in hot beds and transplant just as soon as the weather begins to warm up. For outdoor crops, sow in March and April in drills 2 to 2½ feet apart, covering the seed about 1 inch, and thin out if plants are too thick in rows. Mangels or stock beets should be sown in May. Select a light, loose and deep soil for beets—one ounce sows 50-foot drills. Six to eight pound per acre.

**CROSBY'S EGYPTIAN.**—An extra early variety of good quality. Attractive shape, small tops. Popular with truckers for extra early market. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 65c postpaid. By express, ¼ lb. 15c; lb. 50c.

**CRIMSON GLOBE.**—Early red crimson: perfect globe, smooth and clean. Fine quality for market and table. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 60c postpaid. By express, ¼ lb. 15c; lb. 50c.

**IMPROVED EARLY BLOOD TURNIP.**—Dark red, uniform, smooth growing. A good variety for home use and for main crop. Very best quality, medium early. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 60c postpaid. By express, ¼ lb. 15c; lb. 50c.

**DETROIT DARK RED.**—A fine turnip beet of dark red color, early maturity. Very attractive. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 60c postpaid. By express, ¼ lb. 15c; lb. 50c.



Detroit Dark Red Beet.



Early Blood Turnip Beet.

**SWISS CHARD.**—This vegetable belongs to the beet family, but is grown for its leaves and stems. The leaves are used as spinach, and the stems as asparagus. Combining the two vegetables, Swiss Chard is a valuable addition to any garden. Pkt. 5c; oz. 10c; ¼ lb. 30c postpaid. By express, ¼ lb. 25c.

**EXTRA EARLY ECLIPSE.**—This is the most popular market beet. Globe shape, dark red, tender. Very early and highly recommended. Pkt. 5c; oz. 10c; ¼ lb. 25c; lb. 60 postpaid. By express, ¼ lb. 15c; lb. 50c.

## Mangel or Stock Beet

The great value of the Mangel or Stock Beet is not generally known or appreciated in the South. They are easily grown and are unequalled as a milk producing food for Winter feeding. Everyone owning a cow should plant at least a small acreage in Mangels. Cultivate like beets, but thin out to about eight to ten inches apart. Six to eight pounds will sow an acre.

**MAMMOTH LONG RED.**—Grows to an enormous size. Very easily cultivated, and the most generally used stock beet in the South. Oz. 10c; ¼ lb. 20c; lb. 40c postpaid. By express, lb. 35c; 5 lbs., 30c per lb.

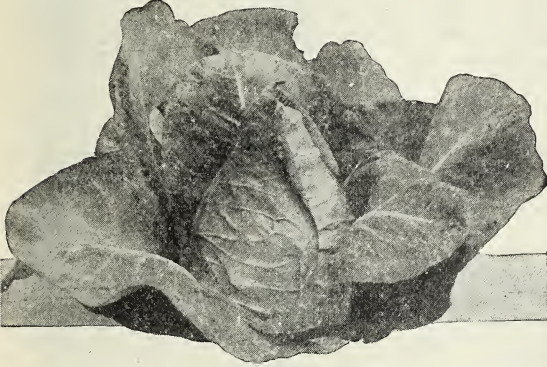
**GOLDEN TANKARD.**—The best known and largely grown mangel. And especially recommended for dairymen on account of its milk producing properties. Well adapted to our light soils and should be grown by every one owning a cow. Oz. 10c; ¼ lb. 20c; lb. 40c postpaid. By express, lb. 30c; 5 lbs., 30c per lb.

Frequent shallow cultivation of growing crops is the best antidote for droughts.



## Cabbage

**CULTURE.**—For the earliest setting out in the Spring, it is best to set out in February or March, plants which have been wintered over either in cold frames or out of doors. For a succession, sow the early varieties in hot-bed or cold-frames in January, or Early March. Later sow the early varieties out of doors in March or April. For winter cabbage sow in April, May or June, transplanting in July or August, to head up during the late fall and winter. Fall sowings, to make plants for setting out in the fall or early Spring, should be made after September 20th; if sown earlier they will likely shoot to seed, especially the flathead kinds. Early varieties should be set 18 inches apart in rows  $2\frac{1}{2}$  to 3 feet apart; late varieties, being larger, should be set 2 feet apart in rows 3 feet apart. One ounce will produce about 2,000 plants; six ounces will make enough to set an acre. Cabbage requires good rich soil, or plenty of manure and fertilizer, and to be worked frequently and deeply.



Grossmann's True Early Jersey Wakefield.

**GROSSMANN'S TRUE EARLY JERSEY WAKEFIELD.**—Our strain of this cabbage is unsurpassed. It has been carefully bred for years by the most careful cabbage-seed grower on Long Island, strictly true to type, makes a uniform, solid head, and resists cold and unfavorable conditions. Undoubtedly the best of all extra early varieties. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00 postpaid. By express,  $\frac{1}{4}$  lb. 50c; lb. \$1.75.

**EARLY YORK.**—A favorite, extra early variety. Pointed head. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00 postpaid. By express,  $\frac{1}{4}$  lb. 50c; lb. \$1.75.

**HENDERSON'S EARLY SUMMER.**—A splendid second early flat headed variety, following the Wakefield and Early Flat Dutch. Makes large, fine, round heads, very solid. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00 postpaid. By express,  $\frac{1}{4}$  lb. 50c; lb. \$1.75.

**GROSSMANN'S IMPROVED CHARLESTON WAKEFIELD.**—Since the introduction of the large type Wakefield cabbage, our grower has been continuously improving our strain of this variety until he has now reached a point of perfection, which we feel can hardly be surpassed. Although a very few days later in maturing, it is double in size, and makes a much better, and more solid head than the original early Wakefield, and its heading qualities are unequalled by any other early cabbage, almost every plant making a good, firm head. We unhesitatingly recommend Grossmann's Improved Charleston Wakefield to our truckers and gardeners as being the best early cabbage in cultivation, combining earliness, size, uniformity in heading and solidity of head. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 60c; lb. \$2.25 postpaid. By express,  $\frac{1}{4}$  lb. 50c; lb. \$2.00.

**EUREKA EXTRA EARLY.**—It is a very fine flat headed cabbage; as early as the Wakefield, heads of good size, and very uniform in growth and heading qualities. Very popular with our truckers. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00 postpaid. By express,  $\frac{1}{4}$  lb. 50c; lb. \$1.75.

**GROSSMANN'S SHORT STEM EARLY FLAT DUTCH.**—The best early flat headed variety, maturing a few days later than Charleston Wakefield, making large flat solid heads, a sure header, and highly recommended to our truckers. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00 postpaid. By express,  $\frac{1}{4}$  lb. 50c; lb. \$1.75.

**EARLY DRUMHEAD.**—An old standard variety, very popular in the South. Medium early, large, solid heads, good quality. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 50c; lb. \$2.00 postpaid. By express,  $\frac{1}{4}$  lb. 50c; lb. \$1.75.

**ALL SEASONS.**—One of the best all-around cabbage grown, very large heads, and very solid; a good variety for late crop, being a splendid keeper. Plants are very vigorous and sure heading, and they withstand hot and dry weather. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00 postpaid. By express,  $\frac{1}{4}$  lb. 50c; lb. \$1.75.

**HENDERSON'S SUCCESSION.**—A good cabbage for summer or late crop, larger and somewhat later than Henderson's Early Summer, making very solid heads of handsome appearance, keeps well for winter use. Pkt. 5c; oz. 30c;  $\frac{1}{4}$  lb. 75c; lb. \$2.50 postpaid. By express,  $\frac{1}{4}$  lb. 65c; lb. \$2.25.

**LARGE LATE DRUMHEAD.**—A favorite winter cabbage recommended for its deep, heavy, solid and long keeping heads, has few outside leaves and is a splendid shipping cabbage. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00 postpaid. By express,  $\frac{1}{4}$  lb. 50c; lb. \$1.75.

**GROSSMANN'S PREMIUM LATE FLAT DUTCH.**—This fine cabbage is without doubt the best strain for general crop or for fall cabbage; it grows to a very large size, makes hard compact heads, with few outside loose leaves, withstands hot and dry weather well, and its keeping qualities are unequalled. We can safely say every plant makes a hard head of cabbage, as in three separate tests of fifty plants each, "Our Premium" produced 47, 49 and 50 perfect heads, respectively. We recommend the same to our market gardeners and truckers as the very best winter cabbage. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00 postpaid. By express,  $\frac{1}{4}$  lb. 50c; lb. \$1.75.



Henderson's Succession Cabbage.



## Carrots

Select a light, rich deep soil, sow in drills 15 inches apart, cover seed one-half inch and thin out to 3 inches in rows. Sow in early Spring from March to May. For Winter use put the roots in cellar or in a kiln out in the field. Carrots make a fine food for stock and should be planted extensively. One ounce sows 100-foot drill, 3 to 4 pounds per acre.



Early Scarlet Short Horn Carrot.

**CHANTENAY.**—One of the best carrots for all purposes. Roots about 6 inches long, blunt pointed, smooth, fine grained and sweet, a heavy yielder. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 75c postpaid. By express,  $\frac{1}{4}$  lb. 25c; lb. 65c.

**IMPROVED LONG ORANGE.**—The standard variety for main crop. Makes long, smooth, tapering roots, of beautiful orange color, growing to good size. Fine winter variety for table, market and stock, has good keeping qualities. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid. By express,  $\frac{1}{4}$  lb. 25c; lb. 65c.

**EARLY SCARLET SHORT HORN.**—It is the earliest variety grown, blunt pointed, about three inches long and sweet flavored, trucker's favorite for early market. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid. By express,  $\frac{1}{4}$  lb. 25c; lb. 65c.

**HALF LONG DANVERS.**—Roots of medium length, smooth and handsome in appearance, deep orange color, crisp and tender. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 75c postpaid. By express,  $\frac{1}{4}$  lb. 25c; lb. 65c.

## Celery

**CULTURE.**—Sow in February, March or beginning of April, in drills 8 to 10 inches apart, in a bed of fine, rich soil, covering one-fourth of an inch. If the soil is dry, press the earth with the back of spade or roller after roving, and keep clear of weeds, or the young plants will be smothered. Transplant from July to October. August and September settings succeed excellently, and requires less labor. To prepare a bed, select a rich moist soil, throw out the earth to a depth of 6 inches, 4 or 5 inches wide, and put in 3 or 4 inches of well-rotted manure, dig in well, and cover with fine soil. Set the plants 6 to 8 inches apart, press the soil firmly, and earth up when the plants are large enough. Earth up two or three times, but do not let the earth get into the heart of the plant. When severe weather comes on, cover gradually with leaves, hay or straw, and place boards on top; water-proof felt paper is also used. In such a bed

the stalks will blanch perfectly, and may be taken out when wanted. In field culture, the plants are set out on the surface, in rows 4 feet apart, and 6 inches in the row. Celery requires frequent cultivation, and the earth drawn up to the plants as rapidly as it grows. Celeric, or Turnip-Rooted Celery, needs no earthing up, and may be planted in rows 18 inches apart. Celery seed germinates slowly; cover lightly and keep constantly moist.

**WHITE PLUME.**—A splendid self-blanching variety for early use. Being self-blanching, this variety requires little work, as it naturally blanches when reaching maturity. Pkt. 10c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.00 postpaid. By express, oz. 20c;  $\frac{1}{4}$  lb. 40c.

**GIANT PASCAL.**—This variety, is more generally grown in the South than any other variety, and is considered one of the best for fall and winter. It makes large, very solid stalks, and is very crisp and tender; a good keeping celery. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.40 postpaid. By express,  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

**WINTER QUEEN.**—A very desirable variety for winter, strong growth, making heavy and solid stalks, blanches creamy white, crisp and tender; splendid keeper. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.40 postpaid. By express,  $\frac{1}{4}$  lb. 40c; lb. \$1.25.

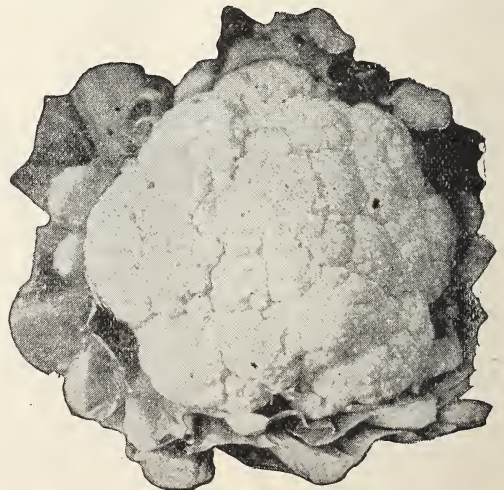
**GOLDEN SELF-BLANCHING.**—This variety excels all others in tenderness and fine flavors; makes solid stalks, 15 to 20 inches high, is self-blanching and good keeping quality; very handsome in appearance. Pkt. 10c; oz. 40c postpaid.

## Cauliflower

Cultivate like cabbage. Sow in January or February for early crop, or May for late. Transplant to moist soil, manure heavily and water freely. When heading begins, fasten leaves over top of head to whiten.

**EARLY SNOWBALL.**—The earliest and considered the best for the South, a sure header, making large solid, perfectly heads of good quality. Pkt. 25c; oz. \$3.00 postpaid.

**AUTUMN GIANT.**—Large late variety, heads large, white, and is a good keeper. Pkt. 10c; oz. 75c postpaid.

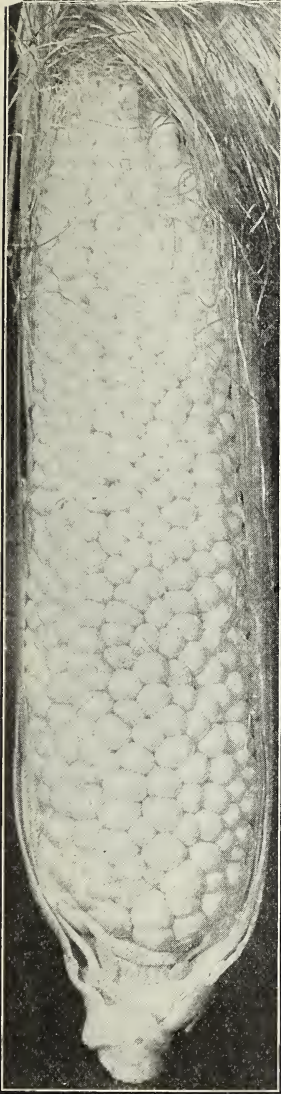


Early Snowball Cauliflower.



## Garden Corns

Plant early corn in rich and well-manured ground from March to middle of April. Sugar corn in May, if ground is warm. Cultivate frequently. Plant a piece about every two or three weeks to get a succession of roasting ears. The early varieties can be planted as late as July for late roasting ears. One quart plants 200 hills; eight quarts per acre.



**ADAMS EXTRA EARLY.**—The earliest sweet corn in cultivation, makes a small ear and stalk, can be planted close together, and is used by our market gardeners to catch the early market. 1 ear 10c; 30c per half doz.; 50c per doz. postpaid. By express, 40c per doz.

Shelled — Pt. 15c; qt. 25c; pk. \$1.10 postpaid. By express, qt. 15c; pk. 85c.

**ADAMS EARLY.**—Similar to Adams Extra Early, but a little later and very much larger ears, earlier and harder than sugar corn; a profitable corn for truckers. 1 ear 10c; 30c per half doz.; 50c per doz. postpaid. By express, 40c per doz.

Shelled — Pt. 15c; qt. 25c; pk. \$1.10 postpaid. By express, qt. 15c; pk. 85c.

**ADAMS IMPROVED EARLY.**—An improved strain of the Early Adams, with larger and more uniform ears and deeper grains; perhaps a few days later in maturing than Early Adams. 1 ear 10c; 30c per doz.; 50c per doz. postpaid. By express, 40c per doz.

Shelled—Pt. 15c; qt. 25c; pk. \$1.25 postpaid. By express, qt. 20c; pk. \$1.00.

**TRUCKER'S FAVORITE.**—As name implies, this is the favorite with all market gardeners and truckers, following close to Early Adams in maturity; it is larger in ears, deeper in grain, and a sure crop; a sweet and palatable corn. Trucker's Favorite is considered the best early market corn grown. Shelled—Pt. 15c; qt. 25c; pk. \$1.00; 50c per doz. ears postpaid. By express, qt. 15c; pk. 75c; bu. \$3.00.

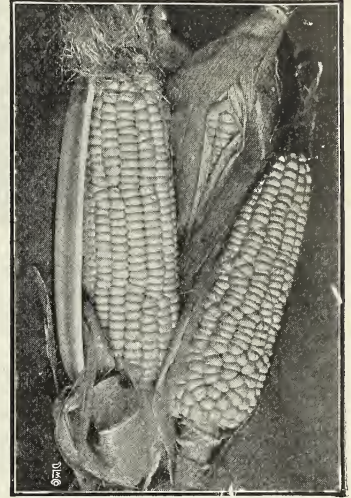
**SOUTHERN SNOWFLAKE.**—A beautiful, large earned corn with deep, soft, pure white grains, almost as early as Trucker's Favorite, but grains and ears larger; a very desirable market corn for main crop. Doz. ears 60c postpaid. By express, 40c per doz.

## Sweet or Sugar Corn

**GOLDEN BANTAM.**—An extra early sweet corn of very sweet and tender qualities; can be planted earlier than other sweet corns; small ear of golden yellow color; bears two and three ears to the stalk. Pkt. 10c; pt. 20c; qt. 35c postpaid. By express, pt. 15c; qt. 25c.

**EARLY WHITE EVERGREEN.**—An early variety of Stowell's Evergreen type, pure white kernel, deep grains and delicious in flavor; a very desirable corn for market gardeners, canners and home gardeners. Pkt. 10c; pt. 20c; qt. 35c postpaid. By express, pt. 15c; qt. 25c.

**STOWELL'S EVERGREEN.**—This is the universal sugar corn. It makes large, well filled ears, bears abundantly on good soil; and the ears remain in the green state for a long time; deep-grained and very sweet. Pkt. 10c; pt. 20c; qt. 35c; pk. \$1.50 postpaid. By express, pt. 10c; qt. 20c; peck, \$1.00.



Stowell's Evergreen.

**COUNTRY GENTLEMAN.**—One of the richest and most popular late sweet corns, has a good sized ear with small cob, long slender grains, and is especially recommended for home gardeners. Pkt. 10c; pt. 20c; qt. 35c; pk. \$1.50 postpaid. By express, pt. 15c; qt. 25c; pk. \$1.25.

## Pop Corn

**RICE.**—The most popular of all popcorns, a good yielder. Corn pops pure white and of good quality. 35c per doz. ears postpaid. By express, 30c per doz. ears.

**MAPLEDALE PROLIFIC.**—A prolific, large eared variety, grains pure white and extremely tender. 35c per doz. ears postpaid. By express, 30c per doz. ears.

**QUEEN'S GOLDEN.**—A very handsome yellow pop-corn, large grains; pops perfectly white, and of good flavor. Generally yields four ears to the stalk. 35c per doz. ears postpaid. By express, 30c per doz. ears.



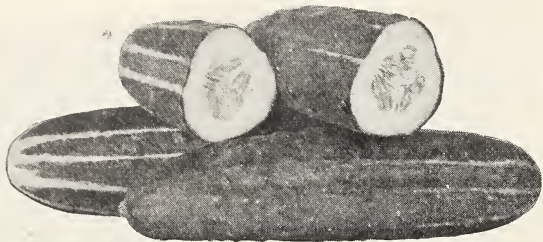
Queen's Golden Pop Corn.

All Vegetable Seeds offered in this Catalogue are New Crop, 1921 growth, and produced by the most careful growers in the country. We try to please our customers.



## Cucumbers

**CULTURE.**—For early crop, plant in hotbed, in pots or small paper boxes, or on pieces of sod, grass side down, so that they can be readily transplanted; or plant in the open ground as soon as the weather becomes settled warm, about the end of April or during May, in hills about 4 feet apart each way. The hills should be previously prepared by mixing well-rotted manure with the soil. Put about ten seeds in each hill, and when all danger of insects is past, thin out to four plants. The fruit should be gathered when large enough, whether wanted or not, for if left to ripen on the vine, it destroys its productiveness. For pickling, plant in June or July. One ounce will plant 50 hills; two pounds, one acre.

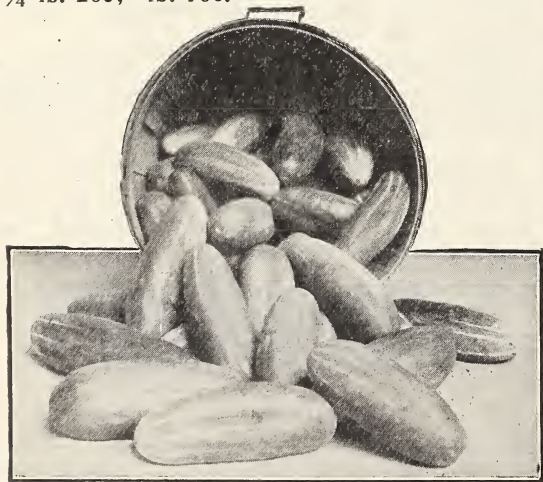


**EARLY FORTUNE.**—An extra early variety of uniform shape, dark green color; fast becoming a favorite with market truckers. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 90c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 75c.

**GREEN PROLIFIC.**—A heavy bearing variety making fruit of medium length, and especially recommended for pickle; used extensively for late planting for pickling purposes. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 90c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 75c.

**KLONDYKE.**—This variety is becoming very popular as a money maker with our truckers; fruit is long and straight, hard and very dark green color, making a good shipping variety; early in maturing and very productive. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 90c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 75c.

**ARLINGTON WHITE SPINE.**—An improved strain of the old reliable white spine variety; the fruit is of good uniform shape, straight in growth, and rich dark green color; very popular variety with our truckers. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 90c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 75c.



**IMPROVED LONG GREEN.**—This is the best cucumber for all purposes; fruit grows ten to

twelve inches long; straight and dark green in color; firm and crisp; a heavy bearer and good quality; the young fruit being very desirable for pickle. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 90c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 75c.

**GHERKIN, or BURR CUCUMBER.**—Small, round and prickly; used only for pickling. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 50c postpaid. By express, oz. 15c;  $\frac{1}{4}$  lb. 40c.

**DAVIS PERFECT.**—This is an early variety and makes long symmetrical fruit of deep green color, which it retains for a long time; considered one of the best table varieties, and is much thought of by our truckers; highly recommended. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 90c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 75c.

## Collards

A fine winter vegetable, similar to cabbage, but does not make solid heads. Sow and cultivate like late cabbage.



**NORTH CAROLINA SHORT STEM.**—A short stem variety with large spreading leaves; very hardy and good flavored. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 65c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c.

**TRUE GEORGIA.**—The old standard and most popular collard grown throughout the South, tall and long stemmed, good flavored and very hardy. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 65c postpaid. By express,  $\frac{1}{4}$  lb. 20c; lb. 50c.

## Corn Salad, or Fetticus

A very desirable salad; can be used like lettuce or cooked like spinach; to be sown in August and September for fall or spring use. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 35c.

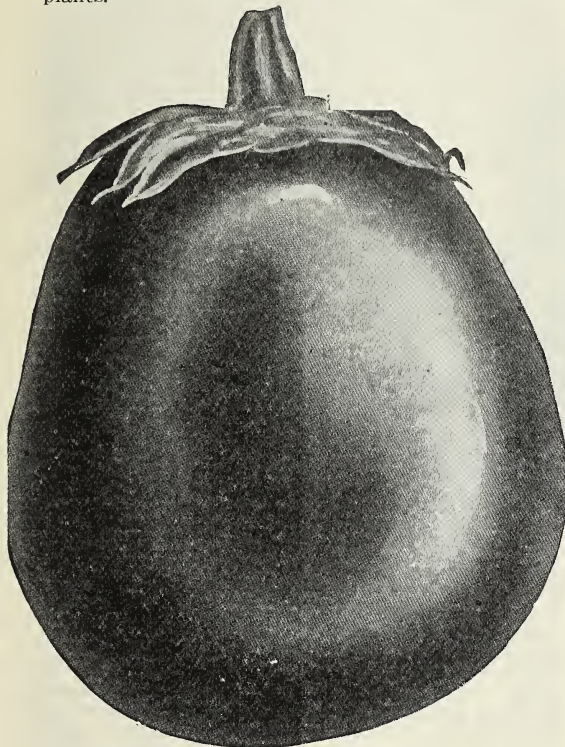
## Cress

**WATER CRESS.**—To be sown in the spring along edges of creek or pond. Only one sowing is necessary, as it increases and perpetuates itself; make a splendid salad and is considered quite a delicacy by a great many. Pkt. 10c postpaid.



## Egg Plant

**CULTURE.**—Egg Plant do best in a deep rich loamy soil. In February or March sow in hotbeds, and when two inches high, transplant to good rich soil. After frost is past, set out three feet each way, and protect from bugs by dusting lightly with slugshot. One ounce will produce about 1,000 plants.



**BLACK BEAUTY.**—Two weeks earlier than any other variety; produces large, lustrous, purplish fruit of fine quality; a very desirable market and shipping variety. Pkt. 5c;  $\frac{1}{2}$  oz. 15c; oz. 30c;  $\frac{1}{4}$  lb. \$1.00 postpaid. By express, oz. 25c;  $\frac{1}{4}$  lb. 90c.

**NEW YORK IMPROVED PURPLE.**—The best known and popular variety, vigorous and productive, fruit large sized; smooth, glossy, deep purplish skin. Pkt. 5c;  $\frac{1}{2}$  oz. 15c; oz. 30c;  $\frac{1}{4}$  lb. \$1.00 postpaid. By express, oz. 25c;  $\frac{1}{4}$  lb. 90c.

## Endive

**CULTURE.**—Sow in August in drills 18 inches apart, and thin out to blanch the heart. In dry seasons give plenty of water.

A most excellent salad or granching for the late summer and fall. Use same as lettuce.

**GREEN CURLED.**—Best variety; green, crisp and tender. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 75c postpaid. By express, oz. 20c;  $\frac{1}{4}$  lb. 60c.

## Gourds

**DIPPER.**—This gourd is used for making dippers. Pkt. 5c; oz. 25c postpaid. By express, oz. 20c.

**NEST EGG.**—This gourd makes a good nest egg which lasts for years. Pkt. 5c; oz. 25c postpaid. By express, oz. 20c.

**DISH CLOTH.**—The lining of this gourd is used for making dish cloths and bath sponges. Pkt. 5c; oz. 35c postpaid. By express, oz. 20c.

**HORSE RADISH ROOTS.**—25c per dozen; 50 for 50c; 75c per 100 postpaid.

## Kale

**CULTURE.**—The Siberian and Scotch are the popular sort for fall sowing; a limited quantity is also sown in the spring. Sow from August 15th to October 15th, either broadcast or in drills 18 inches apart and give some cultivation, and they will yield greens throughout the winter. Spring or smooth Kale may be sown either in the fall or spring, making greens earlier than the winter sorts, but not of as fine quality. Spring sowings should be made in February and March. Sow 8 pounds per acre broadcast, 4 to 5 pounds in drills.

**EARLY CURLED SIBERIAN.**—A hardy, vigorous, spreading green kale, with leaves beautifully curled around edges. Will stand the winter without protection, and is the most generally used kale for truckers and home gardeners. Oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c.

**GREEN CURLED SCOTCH, or NORFOLK.**—This is a dwarf spreading kale, very largely grown around Norfolk for shipping purposes. Leaves are deep green, beautifully curled and crimped. Hardy and can be grown without protection for winter. Oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00 postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 90c.

**SPRING KALE.**—A quick growing smooth leaved variety. Very generally sown. Can be sown in fall or spring, being hardy enough to withstand the winter. Oz. 5c;  $\frac{1}{4}$  lb. 15c; lb. 25c; 5 lbs. at 15c per lb. postpaid. By express, oz. 5c;  $\frac{1}{4}$  lb. 10c; lb. 20c; 5 lbs. at 15c per lb.



## Kohl Rabi

Combines the flavor of cabbage and turnips and makes a splendid dish if used when the bulbs are 2 to 3 inches thick. Sow early in hotbed and transplant and sow outside in April in rows 18 inches apart, thinning to 8 inches; for Winter use, sow in June or July. Also makes fine stock food, yielding 300 to 400 bushels to the acre.

**EARLY WHITE VIENNA.**—The best variety for Virginia and the South; small top, flesh white, very tender; early to mature. Pkt. 5c; oz. 25c postpaid. By express, oz. 20c.



## Lettuce

Sow the seed at intervals of three weeks during the spring for a succession of lettuce, and transplant eight inches apart in beds or rows. Sow in July and August for fall crop, in September for winter and spring crops. For winter heading transplant September plants in cold-frames. One ounce produces 1,500 plants.

May King  
Lettuce.



**MAY KING.**—Makes large, round, solid heads. Extra fine for growing in cold frames. A very good all-around early lettuce. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00 postpaid. By express, oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 80c.

**WHITE PARIS COS.**—The best of the celery lettuce; forms large, light green, well folded heads of upright growth, and popular for its crispness and mild flavor. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. 1.00 postpaid. By express, oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 80c.



## Leek

**CULTURE.**—Leek is generally considered superior to onions for soup-flavoring, etc. Sow as early as practicable in the Spring in a light, rich, moist soil in drills half an inch deep. When six or eight inches high, trim off the tops and roots, and transplant to rows one foot apart and six inches apart in the row, setting them three or four inches deep and earthing up as they grow, so that the necks will become well blanched. May also be sown in cold-frames in September, and the young plants transplanted in the fall or early spring to where they are to remain. One ounce will sow about 100 feet of drill.

**LARGE AMERICAN FLAG.**—This is the standard variety generally used. Pkt. 5c; oz. 25c postpaid.

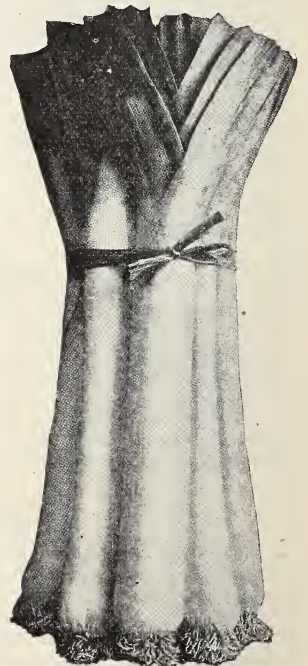
**EARLY WHITE CABBAGE.**—This is the best all-around lettuce in cultivation. Does well for early spring, summer and fall planting. Makes fine, large, solid heads with blanching hearts. Crisp and tender. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00 postpaid. By express, oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 80c.

**IMPROVED BIG BOSTON.**—This is a great favorite for forcing, and also does exceptionally well for outdoor planting for all seasons. Heads large, of fine appearance; crisp and tender, and of fine flavor. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00 postpaid. By express, oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 80c.

**IMPROVED HANSON.**—One of the best summer lettuce. Has large, solid, compact heads, tender and crisp; blanches well and withstands hot weather. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00 postpaid. By express, oz. 15c;  $\frac{1}{4}$  lb. 25c; lb. 80c.

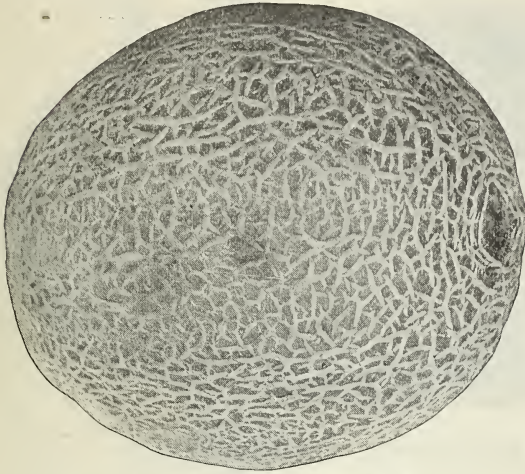
**EARLY CURLED SIMPSON.**—Will make a well balanced, curly, loose head; crisp and tender. Rapid growing. One of the best curled varieties. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c postpaid. By express, oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. 80c.

**GRAND RAPIDS.**—A good curled leaved lettuce. Good for forcing, and does splendidly outdoors if sown in fall or early spring. Does not form heads, but makes a large, compact cluster, crimped around edges; crisp and tender. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.00 postpaid. By express, oz. 15c;  $\frac{1}{4}$  lb. 35c; lb. 80c.



American Flag Leek.





## Cantaloupe, or Musk Melon

**CULTURE.**—Prepare hills 4 to 6 feet apart in a rich, moderately dry sandy soil, using well-rotted manure. When danger of frost is gone, plant 10 to 12 seeds one inch deep in each hill. To promote fruitfulness, pinch the vines when blossoming begins, and cultivate till the vines cover the ground. To combat insect attacks, dust with ashes, lime or road-dust. Do not grow near cucumbers, squashes, etc. One ounce will plant 50 hills; two pounds, one acre.

**KNIGHT.**—This is a splendid shipping melon. Somewhat earlier than Rocky Ford; medium sized, uniform in shape. Well netted, thick green flesh, and good quality. Oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00 postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 80c.

**IMPROVED NETTED GEM.**—An improvement on the old favorite. Fruit uniform and larger than the Rocky Ford and quality unsurpassed. Oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00 postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 80c.

**EARLY HACKENSACK.**—A large medium early melon, roughly netted, rather deeply ribbed. Splendid shipping and market melon. Fine quality. Oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00 postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 80c.

**BURRELL'S GEM.**—Similar in appearance to the Netted Gem, but pinkish flesh instead of green; well netted thin rind, very solid; exceptionally sweet flavored. A splendid variety for table use. Oz. 10c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25 postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00.



True Rocky Ford Cantaloupe.

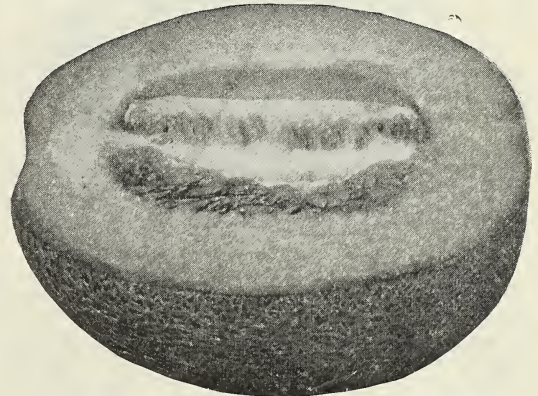
**TRUE ROCKY FORD.**—This is the most popular of all cantaloupes; small, nearly round, very thickly netted; small seed cavity, and delicious in flavor. A money maker for truckers, and should be in every garden. Oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00 postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 80c.

**ANNE ARUNDEL.**—An old standard variety, great favorite for shipping; medium to large sized, well netted and fine quality. Oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00 postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 80c.

**LARGE HACKENSACK.**—An extra large green fleshed variety, deep ribs, and heavily netted. Flesh thick, juicy and sweet; a splendid table melon. Oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00 postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 80c.

**BANANA.**—Grows 18 to 24 inches long. Thick flesh and of a most delicious flavor; very sweet. Oz. 10c;  $\frac{1}{4}$  lb. 40c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 35c.

**BURRELL'S GOLD LINED NETTED ROCK.**—One of the finest strains of the Rocky Ford varieties. Melons of fine green, thick flesh and very sweet. The seed cavity very small, the flavor is exquisite. A heavy yielder. One of the sweetest melons in cultivation. Oz. 15c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50 postpaid. By express, oz. 15c;  $\frac{1}{4}$  lb. 45c; lb. \$1.25.



**BURRELL'S SELECTED ROCKY FORD.**—Grown especially for us by originator. Seed saved from selected melons only. The very finest strain of Rocky Ford obtainable. Oz. 15c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50 postpaid. By express, oz. 15c;  $\frac{1}{4}$  lb. 40c; \$1.25.

**CHICAGO MARKET.**—This we consider the best nutmeg melon, combining earliness of maturity, large and uniform size, thickly netted skin, small seed cavity, and deep green flesh. Melons grow four to five pounds in weight. Fine quality. Oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00 postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 80c.

**MONTREAL MARKET.**—The largest of all nutmeg sorts. Fruit round, flattened at end with very broad ribs. Flesh green and of fine quality. Oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00 postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 80c.

**EDEN GEM.**—One of the best of the Rocky Ford type melons. Uniform size, very heavily netted. Green flesh, with salmon pink around seed cavity. Highly recommended for shipping, as well as for home use. Oz. 10c;  $\frac{1}{4}$  lb. 40c; lb. \$1.25 postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.10.





## Southern Grown Watermelon Seed from Selected Specimens

Cultivate like cantaloupes, but make the hills 12 feet apart. Do not plant near gourds or pumpkins. One ounce for 30 hills, 3 pounds for acre.

**HARRIS' EARLIEST.**—The earliest variety grown, and a good melon for being so early. Medium large fruit, handsome in appearance, and first-class quality. Oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c.

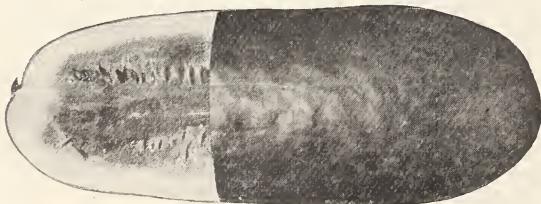
**DUKE JONES.**—A large round, dark green melon. Splendid shipper; flesh dark red; sweet and juicy. Oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c.

**KOLB GEM.**—Particularly fine shipping melon. The rind is exceptionally hard and firm. Bright red flesh and solid; heavy yielder. Oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c.

**IMPROVED GEORGIA RATTLESNAKE.**—This is an improved strain of the old standard Rattlesnake melon, and has all the fine qualities of same, combined with larger growth and unsurpassed flavor. A splendid melon for shipping or home use. Oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c.

**TOM WATSON.**—Decidedly the most popular melon grown. Large, long and dark green; fruit of exceptionally fine shipping quality. Rich red, flesh solid, sweet and luscious. Good shipping, a good market, and a fine table melon. Oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c.

**KLECKLEY'S SWEET.**—One of the most popular melons grown; dark green skin, thin rind, solid scarlet heart. Sweet crisp and melting flavor. One of the best melons grown. Oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c.



Keckley's Sweets.

**JACKSON.**—An exceptionally sweet melon, and one of the best for table use. A long melon with mottled skin; ripens close to the rind. Oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c.

**FLORIDA FAVORITE.**—A splendid, large, long melon. Ripens early, thin rind and deliciously sweet. A good shipper and home melon. Oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c.

**JORDAN'S GRAY MONARCH.**—One of the largest melons grown, and a splendid shipper. Long fruit with mottled gray color, good flavor. Oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c.

**TRIUMPH.**—A medium early, extra large melon of splendid quality. Dark green rind, with indistinct stripes; fine appearance. Flesh solid and sweet. Oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 60c.

**BRADFORD.**—One of the best melons for home use or near by market, but not recommended as a shipping melon. Dark green rind with darker stripes; rather long. Remarkably tender and sweet. Oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c.

## Okra

**CULTURE.**—When the ground has become warm, sow thickly in drills 3 feet apart, and when large enough thin out to 8 inches apart in the rows. To keep for the winter use, slice the pods when young and tender into narrow strings, string and hang in shade to dry. Ounce will sow 30 feet of drill.

**WHITE VELVET.**—A very prolific variety, bearing smooth white pods of splendid flavor. The most popular okra grown. Oz. 5c;  $\frac{1}{4}$  lb. 20c; lb. 50c postpaid. By express, oz. 5c;  $\frac{1}{4}$  lb. 15c; lb. 40c.

**TALL GREEN.**—Produces in great abundance, dark green pods, of best quality. Oz. 5c;  $\frac{1}{4}$  lb. 20c; lb. 50c postpaid. By express, oz. 5c;  $\frac{1}{4}$  lb. 15c; lb. 40c.





## Mustard

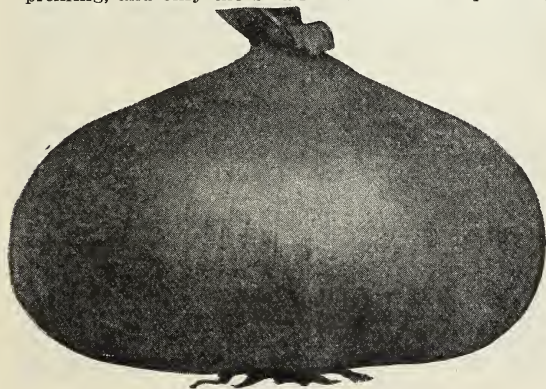
Grown and used like Spinach or Kale. Sow from February to April, or in September and October, broadcast or in drills. One ounce for 100-foot drill, 4 pounds per acre broadcast.

**SOUTHERN GIANT CURLED.**—The most popular curled mustard grown in the South; forms a great mass of leaves finely curled and crimped and of good flavor. Oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c.

## Onion

**CULTURE.**—Large Onions from Seed.—For best crop results, to grow large onions from seed the first year, sow in January and February in hot-beds and as soon as the weather opens and the sets are the size of goosequill, transplant to rows 12 inches apart and 4 to 6 inches between the onions. Transplanting is of decided benefit, increasing the yield considerably, in some instances double the yield being reported. They can also be sown in the open ground in February or March, and will make a good crop put in at this time. The Italian, Spanish and Bermuda varieties can also be sown in August or September, and transplanted about the end of October or early in November. Five or six pounds will sow an acre.

**Growing Onion Sets from Seed.**—To grow onion sets, sow in broad, wide rows, in March or early in April, 40 to 50 pounds per acre, and keep clean of weeds. In late summer, or whenever the tops die, remove the small bulbs, buttons or sets, to a dry place, spread them out thinly on trays made of laths, piling the trays one on top of another, separated by blocks, so that the air can circulate freely between them. The larger sets should be sold for pickling, and only the smallest retained for planting.



**LARGE RED WEATHERFIELD.**—The best known red variety. Grown to a large size, flattened on ends, but thick. A very hardy, solid and good keeping onion. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 50c; lb. \$1.75 postpaid. By express, oz. 20c;  $\frac{1}{4}$  lb. 40c; lb. \$1.50.

**YELLOW GLOBE DANVERS.**—The best known and most largely grown onion. Grows to good size, and ripens solid and heavy. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$2.00 postpaid. By express, oz. 20c;  $\frac{1}{4}$  lb. 50c; lb. \$1.75.

**EXTRA EARLY WHITE PEARL.**—The quickest growing of all white sorts, makes large pearly onions. Tender, mild and of excellent flavor. Seed can be sown thickly in the spring; sets raised and planted out in fall, and large onions will be ready in spring, before any other variety. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c postpaid. By express, oz. 20c;  $\frac{1}{4}$  lb. 60c.

**SILVER SKIN, or WHITE PORTUGAL.**—Flesh and skin pure white; flavor mild and sweet. Grows to a good size and ripens early and evenly. Makes a good onion for bunching; for table use, and for pickling purposes. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 60c postpaid. By express, oz. 15c;  $\frac{1}{4}$  lb. 50c.



## Onion Sets

Prices on Onion Sets Fluctuate. Current Prices on Request.

**YELLOW DANVERS.**—Qt. 25c; pk. \$1.00 postpaid. By express, qt. 20c; pk. 75c; bu. of 32 lbs. \$2.50.

**RED WEATHERSFIELD.**—Qt. 25c; pk. \$1.00 postpaid. By express, qt. 20c; pk. 75c; bu. of 32 lbs. \$2.50.

**SILVER SKIN.**—Qt. 25c; pk. \$1.00 postpaid. By express, qt. 25c; pk. 85c; bu. \$3.00.

## Parsley

**CULTURE.**—For spring seeding, sow in February, March or early in April. Soak a few hours, and then sow in rows a foot apart, and cover about half an inch. Parsley is slow to germinate, sometimes two or three weeks in coming up. One ounce will sow 150 feet of drill.

**CHAMPION MOSS CURLED.**—Beautifully curled and crimped, and the favorite for garnishing and flavoring. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 35c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 30c.

**PLAIN or SMOOTH LEAVED.**—A very hardy variety; somewhat stronger in flavor than the curled. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 35c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 30c.



## Parsnip

**CULTURE.**—A rich sandy loam, deeply worked, is the best for parsnips. Sow in the spring, in drills eighteen inches apart, and cover lightly. Parsnip seed is very slow in germinating, especially when the ground is dry. When two inches high, thin out to 4 or 6 inches apart. One ounce will sow 200 feet of drill; five pounds to the acre.

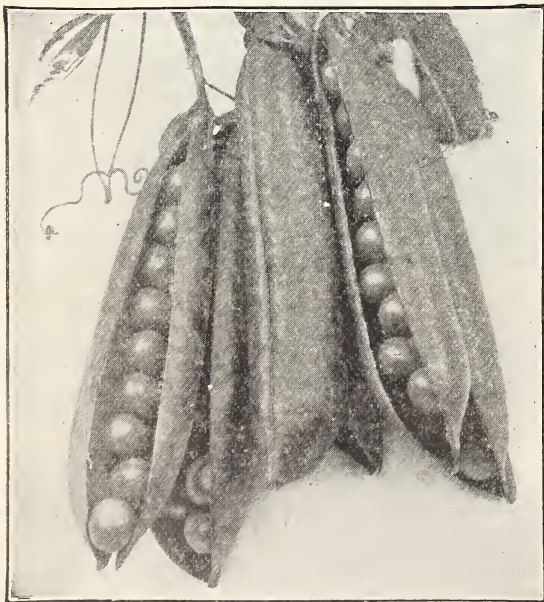
**IMPROVED SUGAR or HOLLOW CROWN.**—The standard variety; smooth, tapering roots, and of good flavor. Fine for both table and stock. Pkt. 5c; oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c.

## Garden Peas

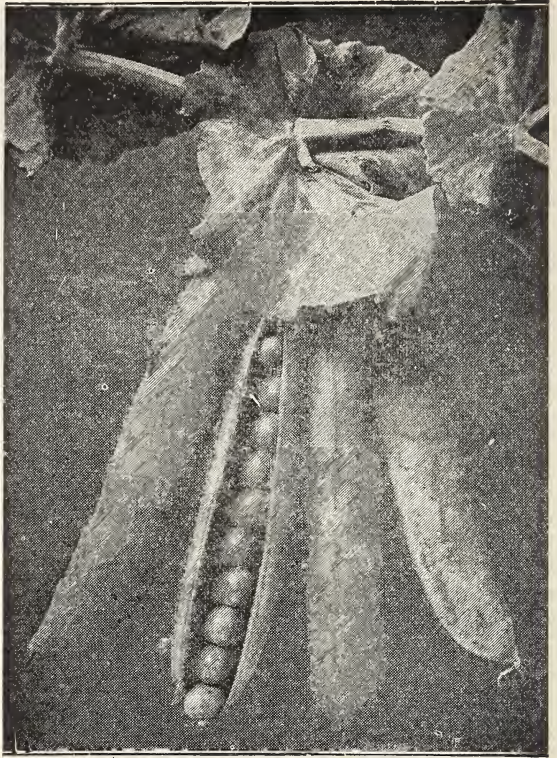
**CULTURE.**—Peas succeed best in light, rich loamy soil which has been manured the previous season. Plant the smooth varieties in the spring as soon as the ground can be worked, in rows 3 to 4 feet apart, 2 inches deep, giving the taller varieties more room between the rows. The wrinkled varieties are tender, and should be planted later than the smooth kinds. For a succession, plant every two weeks. The dwarf varieties can be planted in rows  $2\frac{1}{2}$  to 3 feet apart. Peas grown as a market crop are rarely ever staked, but when the taller varieties are grown for private use, it is a good plan to sow them in double rows and stake with brush. They should be kept clean and the earth worked toward them two or three times during growth. One and a half bushels are required to plant one acre, one quart to plant 100 feet of drill.

**TELEPHONE.**—One of the most popular of the wrinkled sorts. Fine sugary flavor; large pods, and a good bearer. One of the best varieties for main crop. Height about 4 ft. Pt. 30c; qt. 45c; pk. \$2.50 postpaid. By express, pt. 20c; qt. 35c; pk. \$2.50.

**EXTRA EARLY ALASKA.**—This pea is more generally grown by market gardeners and truckers than any other; extra early in maturity and very prolific. Well filled pods of beautiful green color, which they retain longer than other varieties. Pt. 25c; qt. 40c; pk. \$2.25 postpaid. By express, pt. 15c; qt. 25c; pk. \$2.00; bu. \$6.50.



Extra Early Alaska Peas.



First and Best Peas.

**GRADUS or PROSPERITY.**—The best early wrinkled. Pods are large and well filled and of unsurpassed quality. Can be sown earlier than most wrinkled varieties. Pt. 30c; qt. 45c; pk. \$2.75 postpaid. By express, pt. 20c; qt. 35c; pk. \$2.50.

**PHILADELPHIA EXTRA EARLY.**—The old standard extra early variety. Very similar to First and Best, and about the same in quality and height. Pt. 25c; qt. 40c; pk. \$2.25 postpaid. By express, pt. 15c; qt. 25c; pk. \$2.00. bu. \$6.50.

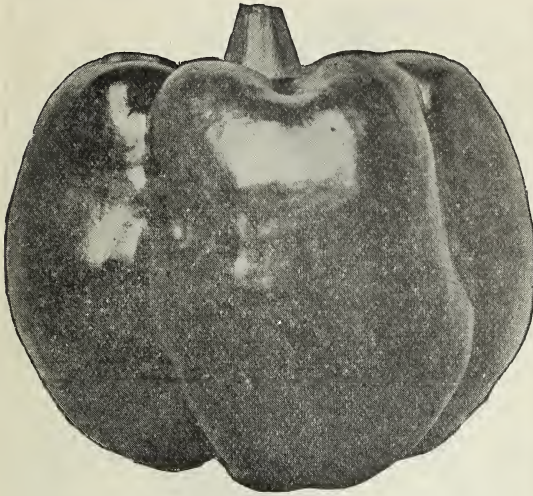
**FIRST AND BEST.**—A very desirable strain of extra early peas, and popular with truckers. Height, two to two and one-half feet. Pt. 25c; qt. 40c; pk. \$2.85 postpaid. By express, pt. 15c; qt. 25c; pk. \$2.00; bu. \$6.50.

**BLACK EYE MARROWFAT.**—Very largely grown for late crop for market or home use. Very hardy, vigorous and productive. Grows from three to five feet high. Pkt. 20c; pt. 35c; pk. \$2.00 postpaid. By express, pt. 15c; qt. 25c; pk. \$1.75; bu. \$6.00.

**AMEER or LARGE PODDED ALASKA.**—A large and prolific strain of the Alaska Pea, ripening almost at the same time, but with much longer, broader pods. Highly recommended for market gardeners. Height two feet. Pkt. 10c; pt. 25c; qt. 40c; pk. \$2.25 postpaid. By express, pt. 15c; qt. 25c; pk. \$2.00; bu. \$7.00.

**THOMAS LAXTON.**—A large podded, early variety of the wrinkled peas. Hardy and strong grower, producing pods in abundance of delicious quality. Height 2 feet. Pkt. 10c; pt. 30c; qt. 45c; pk. \$2.75 postpaid. By express, pt. 20c; qt. 35c; pk. \$2.50.





## Pepper

**CULTURE.**—Sow in hot-bed in February or March, and transplant to open ground in May in rows 2 to 3 feet apart, 15 inches between the plants; or when the ground becomes warm, sow in open ground and set out as above. When about six inches high, apply liquid manure or some good fertilizer.

**CHINESE GIANT.**—An enormous, sweet pepper, growing from 12 to 15 inches in circumference. Plants grow about 2 ft. high and are very prolific. Flesh tender, mild and sweet. Used for slicing like tomatoes or stuffed as mangoes. Very desirable. Pkt. 10c; oz. 50c;  $\frac{1}{4}$  lb. \$1.75 postpaid. By express, oz. 45c;  $\frac{1}{4}$  lb. \$1.50.

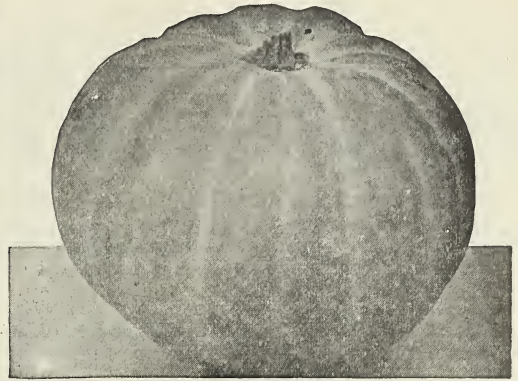
**PIMENTO.**—This is the mildest-flavored of all peppers, is entirely free of the pungent flavor which so many consider undesirable, is heart-shaped, perfectly smooth, bright scarlet color and very productive. Pkt. 5c; oz. 40c;  $\frac{1}{4}$  lb. \$1.25 postpaid. By express, oz. 35c;  $\frac{1}{4}$  lb. \$1.00.

**LARGE BELL or BULL NOSE.**—An old standard sweet pepper. Ripens early and uniformly. Flesh of excellent quality and largely used in salads. Pkt. 5c; oz. 40c;  $\frac{1}{4}$  lb. \$1.25 postpaid. By express, oz. 35c;  $\frac{1}{4}$  lb. \$1.00.

**LONG RED CAYENNE.**—The standard hot pepper. Making long, slender, bright red pods about 3 to 4 inches long. Used in the green and ripe state for pickling and seasoning. Pkt. 5c; oz. 35c;  $\frac{1}{4}$  lb. \$1.25 postpaid. By express, oz. 30c;  $\frac{1}{4}$  lb. \$1.00.

**RUBY GIANT.**—Not quite as large as Chinese Giant, but very attractive in appearance and very prolific. Flesh mild and sweet. Pkt. 5c; oz. 40c;  $\frac{1}{4}$  lb. \$1.25 postpaid. By express, oz. 35c;  $\frac{1}{4}$  lb. \$1.00.

**RED CHILI.**—A splendid hot pepper for making sauce and pepper vinegar. Pods grow about an inch long, and when ripe have a brilliant scarlet color. Very prolific. Pkt. 5c; oz. 40c;  $\frac{1}{4}$  lb. \$1.25 postpaid. By express, oz. 35c;  $\frac{1}{4}$  lb. \$1.00.



## Pumpkin

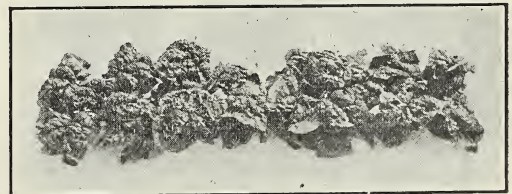
**CULTURE.**—Plant in May, in hills 8 to 10 feet apart, mixing well-rotted manure, in each hill. Put 8 to 10 seeds in each hill, and cultivate till the vines get strong, when they should be thinned out, leaving two or three of the strongest in each hill. When planted in corn plant at the same time as the corn, in every fourth row, 10 to 12 feet apart in the rows, letting the hill of pumpkins take the place of a hill of corn. One ounce will plant 20 hills; three pounds, one acre.

**LARGE CHEESE.**—An exceedingly large pumpkin; for both table and stock. Very thick flesh; sweet and of fine quality and a good keeper. Oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid. By express, oz. 10c  $\frac{1}{4}$  lb. 25c; lb. 65c.

**VIRGINIA MAMMOTH.**—This is undoubtedly the finest pumpkin raised; growing to an enormous size; its keeping qualities are unexcelled and it is adapted to most any climate or soil. Fruit is oval shaped. Rich golden color; flesh of fine flavor, and a very desirable pumpkin for table as well as stock use. Oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00 postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 80c.

**SUGAR or PIE.**—A small sweet pumpkin used mainly for making pies. Oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.15 postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.00.

**CORNFIELD PUMPKIN.**—Used mainly for stock feeding. Planted in corn fields making enormous crops with little cultivation. Oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00 postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 85c.



## Spinach

Sow early in spring in rich soil in drills 1 inch deep, two feet between the rows. For winter or spring crop, sow in September and October. One ounce for 100-foot drill; 20 pounds to an acre.

**NORFOLK SAVOY or BLOOMSDALE.**—The best variety for fall or spring seeding. Quick growth, hardy; beautifully curled leaves. Oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 15c; lb. 40c.



## Radish

To be tender and crisp, Radishes must be grown quickly, and this requires rich soil and moisture. Begin as early as possible in spring and sow at intervals of about 10 days in a light, rich, deeply worked soil. Can also be forced in hot-beds. For fall and winter sow in August and September. One ounce sows fifty feet.

**EARLY FORCING SCARLET GLOBE.**—The earliest radish and best for forcing. Small top, bright red color. Beautiful appearance. Oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 85c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c.

**EARLY SCARLET TURNIP.**—A quick growing round red radish with small top. Crisp and tender. A good variety for outdoor planting. Oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 85c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c.

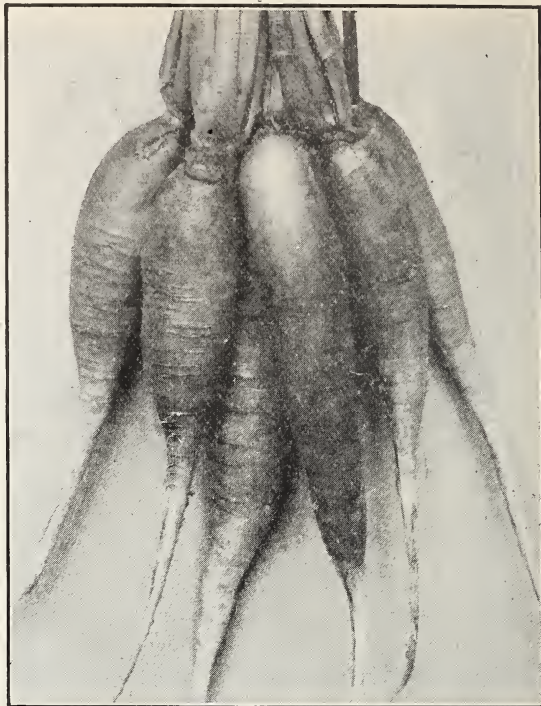
**FRENCH BREAKFAST.**—A white tipped olive shaped variety, and one of the best forcing radish. Oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 85c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c.

**EARLY WHITE TURNIP.**—Pure white turnip shaped radish. Early in maturity and of good flavor. Oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 85c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c.

**GOLDEN GLOBE SUMMER.**—The best summer radish. Round shape, golden yellow in color. Crisp and tender. Withstands hot weather. Oz. 10c;  $\frac{1}{4}$  lb. 30c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c.

**EARLY WHITE TIPPED SCARLET.**—Very early, round shape, scarlet roots with white tip; attractive appearance. Quality crisp, tender and mild. A favorite with truckers. Oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 85c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c.

**CRIMSON GIANT GLOBE.**—A large early variety. Round with deep crimson color. Tender and crisp. Oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 85c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 75c.



Long Scarlet Radish.

**ROSE CHINA WINTER.**—The best winter variety. Cylindrical in shape, rose color. Flesh white. Keeps crisp and tender throughout the winter. Oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 90c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 80c.

**WHITE STRASBURG.**—Large; long, with solid meat. Pure white in color. A splendid variety for summer and fall. Oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 85c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c.

## Rhubarb

Set out in the early Spring for Fall in deep worked soil four feet apart each way. Mulch freely with manure or coarse litter. After stalks are well rooted and have grown freely, they may be used, and with care will last for years.

**LINNAEUS.**—The best variety grown. Makes fleshy stalks of best quality. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c postpaid. By express, oz. 20c;  $\frac{1}{4}$  lb. 70c.

**RHUBARB ROOTS.**—15c each; \$1.50 per doz. postpaid. By express, \$1.25 per doz.

## Salsify, or Oyster Plant

**CULTURE.**—Sow in March or April in a rich, light, deeply worked soil, in rows 18 inches apart, and thin out to 4 to 6 inches. Do not use coarse or fresh manure; it will make the roots ill-shaped and uneven. Cultivate often to keep down weeds. It is perfectly hardy, and may remain out all winter. Can also be sown in May and June, provided we get seasonable weather or boards be used to get the seeds up and shade the young sprouts until they get well established. One ounce will sow 50 feet of drill; eight pounds to one acre.

**MAMMOTH SANDWICH ISLAND.**—Largest and best variety, vigorous grower, with long, large white tapering roots. Oz. 5c;  $\frac{1}{4}$  lb. 50c; lb. \$1.60 postpaid. By express, oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.40.



Rose China Winter Radish.

**LONG SCARLET.**—A long, smooth, bright scarlet radish. Very attractive in appearance; crisp and tender. Fine for forcing. Oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 85c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c.





Early White Bush Squash.

## Squash, or Cymling

**CULTURE.**—After danger of frost is past, plant in a warm well-pulverized, rich soil, mixing well-rotted manure with the soil in each hill. Plant eight or ten seeds to the hill; the bush varieties 4 to 6 feet apart, the running sorts 8 to 10 feet. When well grown, thin out, leaving three of the strongest plants in each hill. Summer sorts, one ounce to forty hills, four to six pounds to an acre; winter sorts, one ounce to ten hills, four to five pounds to an acre.

**EARLY WHITE BUSH.**—The standard White Bush squash or cymbling. Grown extensively by truckers for main crop. Very prolific and an excellent shipper. Also grown for hog feed. Oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. 90c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c.

**HUBBARD SQUASH.**—One of the best winter varieties. Heavy fruit of bright orange flesh, fine grains, sweet and richly flavored, a good keeper, and unsurpassed for squash pies. Oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.00 postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. 90c.

**EARLIEST PROLIFIC WHITE BUSH.**—This is the earliest variety of white bush squash in cultivation, and is a money maker for truckers. Ten days earlier than Early White Bush; same growth and same shape fruit. Scallops not so pronounced; flesh thick, firm and very tender. Oz. 15c;  $\frac{1}{4}$  lb. 50c; lb. \$1.50 postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 40c; lb. \$1.35.

**GIANT SUMMER CROOKNECK.**—A beautiful variety for summer crop, bears early and continues through the summer. Of true crookneck type; rich golden yellow color. Thickly warted and of excellent table qualities. Oz. 10c;  $\frac{1}{4}$  lb. 35c; lb. \$1.25 postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 30c; lb. \$1.10.

## Tomato

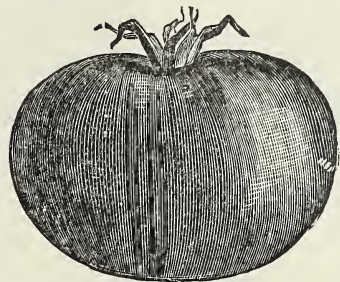
**CULTURE.**—Sow in hot-beds or shallow boxes in the house early in the spring, transplanting in the beds to promote root growth, and when danger of frost is over, set 3 to 4 feet apart outside. Expose to the air as much as possible to harden them, and water freely when transplanting, shading them in a few days from the sun until thoroughly established. Earliness may be promoted by growing in pots, shifting to larger size as they become filled with roots. Earlier fruits may also be had by allowing only the original stem to bear. If the plants are staked, they may be grown closer together and produce more perfect fruits.

**EARLY ACME.**—Medium early and will continue to bear until frost. One of the oldest varieties in cultivation, but one of the best. Purple in color; almost round. Smooth, solid and of good flavor. Never failing favorite. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 80c; lb. \$2.50 postpaid. By express, oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.25.

**YELLOW PEAR.**—Small pear shaped variety, used for preserving. Pkt. 5c; oz. 35c;  $\frac{1}{4}$  lb. \$1.15; lb. \$3.75 postpaid. By express, oz. 30c;  $\frac{1}{4}$  lb. \$1.00; lb. \$3.50.

**MATCHLESS.**—One of the best main crop tomatoes. Very solid; few seed; large smooth fruit. As a main crop, it is unsurpassed. Pkt. 5c; oz. 20c;  $\frac{1}{4}$  lb. 75c; lb. \$2.25 postpaid. By express, oz. 20c;  $\frac{1}{4}$  lb. 65c; lb. \$2.00.

**EARLIANA (Special Strain).**—A standard extra-early variety. Largely grown by market gardeners. Bright red, smooth and attractive in appearance. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 80c; lb. \$2.50 postpaid. By express, oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.25.



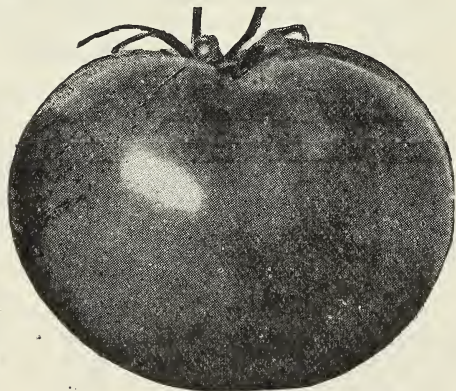
**BONNIE BEST.**—Early, smooth, bright red tomato. Medium in size. Uniform and attractive. Growing in favor for market and home use. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.00, postpaid. By express, oz. 25c;  $\frac{1}{4}$  lb. 65c; lb. \$1.75.

**NEW STONE.**—Considered the best tomato for main and late crop. Large, solid, bright scarlet. Very firm, uniform and hardy. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$1.75, postpaid. By express, oz. 20c;  $\frac{1}{4}$  lb. 60c; lb. \$1.50.

**GOLDEN PONDEROSA.**—One of the largest of the yellow tomatoes; very handsome, solid and smooth; very productive. Pkt. 5c; oz. 40c;  $\frac{1}{4}$  lb. \$1.25; lb. \$4.50 postpaid. By express, oz. 35c;  $\frac{1}{4}$  lb. \$1.10; lb. \$4.25.

**PONDEROSA.**—An extra large and very handsome, bright red tomato. Flesh thick, solid and of fine quality. Especially recommended for home gardeners. Pkt. 5c; oz. 40c;  $\frac{1}{4}$  lb. \$1.25; lb. \$4.50 postpaid. By express, oz. 35c;  $\frac{1}{4}$  lb. \$1.10; lb. \$4.25.

**JUNE PINK.**—Considered an improvement on Earlinia. Extra early with beautiful pink color. Medium size, smooth and prolific. Pkt. 5c; oz. 25c;  $\frac{1}{4}$  lb. 75c; lb. \$2.50 postpaid. By express, oz. 25c;  $\frac{1}{4}$  lb. 60c; lb. \$2.25.





## Tobacco Seed

### Bright Varieties

**IMPROVED GOLDEN ORONOKO.**—A select strain of this standard variety. Very popular and extensively grown; large, erect growth, with large leaves of finest texture. Price, oz. 30c;  $\frac{1}{4}$  lb. 75c postpaid.

**SILKY PRYOR.**—This is a well known variety, especially adapted to manufacturing purposes. Leaf of medium length and breadth; good body, and an exceptionally fine grain and silky appearance. Price, oz. 30c;  $\frac{1}{4}$  lb. 75c postpaid.

**WHITE STEM ORONOKO.**—A great favorite with all who have grown this variety. Its habit of growth is large and erect, with long, broad leaves of fine silky texture, curing to a beautiful yellow color. Price, oz. 30c  $\frac{1}{4}$  lb. 75c postpaid.

**WARNE.**—For bright wrappers, this variety is unexcelled; grows to large size, and holds up well. Leaf is large, of medium breadth and very fine grain. Price, oz. 30c;  $\frac{1}{4}$  lb. 75c postpaid.

**GOLD LEAF.**—Considered the finest of all bright varieties. Leaf long and broad, producing a combination of weight and quality unequalled. Price, oz. 40c;  $\frac{1}{4}$  lb. \$1.00 postpaid.

**ADCOCK.**—An old popular variety. Considered one of the best for growing on poor land. Long, broad leaf of good texture. Price, oz. 30c;  $\frac{1}{4}$  lb. 85c postpaid.

### Dark Varieties

**BIG ORONOKO.**—The largest and heaviest variety of the Oronoko strain, and a sure winner for dark wrappers. Has large broad leaf of handsome appearance; cures well, and possesses weight and body. Price, oz. 30c;  $\frac{1}{4}$  lb. 80c postpaid.

**RICH WONDER.**—This new variety stands first among all heavy dark tobaccos. The plants grow to an unusually large size, with long, broad leaves, which possess a great deal of weight. Properly cured, the leaf is dark rich, gummy, with small fibers. Price, oz. 40c;  $\frac{1}{4}$  lb. \$1.25 postpaid.



## BEE KEEPERS' SUPPLIES

Our Bee supplies are strictly "Lewis Quality"; no seconds, no culls. We can furnish our customers with anything needed in bee supplies within two days' notice.

### STANDARD DOVE-TAILED HIVES

5 10-fr. 1-story Hives, K. D.....	\$14.50
1 10-fr. 1-story Hive, K. D.....	3.50
1 10-fr. 1-story Hive, N. & P.....	6.00

### SUPERS

5 10-fr. Comb Honey Supers, K. D.....	\$5.00
1 10-fr. Comb Honey Supers, K. D.....	1.25
1 10-fr. Comb Honey Supers, N. & P.....	2.60

### HONEY SECTIONS

		100.	500.
4 $\frac{1}{4}$ x 4 $\frac{1}{4}$ x 1 $\frac{1}{8}$	Beeway.....	\$1.50	\$7.00
4 $\frac{1}{4}$ x 4 $\frac{1}{4}$ x 1 $\frac{1}{2}$	Plain.....	1.40	6.50
4 x 5 x 1 $\frac{3}{8}$	Plain.....	1.40	6.50

### FRAMES

	Each.	100.
Hoffman Brood Frames.....	8c	\$7.00
Hoffman Shallow Ext.....	6c	5.00

### COMB FOUNDATION

	Lb.	10lb.	25lb.
Medium Brood .....	80c	\$7.50	\$18.25
Thin Supers .....	90c	8.50	20.25

### SMOKERS

Bingham Little Wonder, 3 inch.....	\$1.00
Bingham Conqueror, 3x7 inch.....	1.25
Bingham Doctor, 3 $\frac{1}{2}$ x 7 inch.....	1.50
MUTH BEE VEIL. Each.....	\$1.25
BRISTLE BEE BRUSH. Each.....	.30



## Turnip and Ruta Baga

**CULTURE.**—Spring sowing should be put in early so that they will attain a good size before hot weather, otherwise they will become tough and bitter. For spring sowing the Milans or other varieties are best. For the regular crop, sow the early sorts in July or August, the later sorts during August, and the salad varieties during August and September. Sow either broadcast or in drills 2 feet apart, thinning out to 6 inches, and roll the ground after sowing. Rutabagas should be sown in July and early in August, and earthed up as they grow. Sow  $1\frac{1}{2}$  pounds to the acre in drills, 2 pounds broadcast; salad turnips 3 pounds to the acre.

**EARLY FLAT DUTCH.**—An extra early pure white flat growing variety. Recommended for early market. Oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 65c postpaid. By express, oz. 5c;  $\frac{1}{4}$  lb. 15c; lb. 60c.

**EARLY PURPLE TOP STRAPLEAF.**—Flat, white with purple top. Fine grained and tender. Used for early market and table. Oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 40c postpaid. By express, oz. 5c;  $\frac{1}{4}$  lb. 15c; lb. 50c.

**LARGE WHITE NORFOLK GLOBE.**—Makes large, round, handsome, white roots, excellent for table and stock. Oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 15c; lb. 40c.

**IMPROVED AMERICAN PURPLE TOP WHITE GLOBE.**—The most popular turnip for market and table use. Makes large, globe shaped roots, pure white, with purple top. A heavy yielder and unsurpassed in quality. Oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 60c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c.

**LONG WHITE COW HORN.**—A very attractive quick growing turnip. Used especially for stock feeding. Oz. 10c;  $\frac{1}{4}$  lb. 25c; lb. 75c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 70c.

**LARGE YELLOW, or AMBER GLOBE.**—Of large size, globe shaped, solid yellow flesh, green top. Fine for table and stock. Keeps firm and sweet throughout the winter. Oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 15c; lb. 40c.



**WHITE EGG.**—A quick growing, egg shaped, pure white variety. Very sweet, firm, and mild. Oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c.

**YELLOW ABERDEEN, PURPLE TOP.**—A splendid keeping variety with firm, solid yellow meat. Keeps throughout the winter, and especially recommended for stock feeding. Oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 15c; lb. 40c.

**IMPROVED AMERICAN PURPLE TOP RUTABAGA.**—An improved strain of the finest yellow fleshed rutabaga grown. Hardy sweet and is a good keeper. Oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 60c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 15c; lb. 50c.

## Salad Varieties

**SOUTHERN PRIZE, or DIXIE.**—Considered the best salad variety known. Very hardy, withstands cold, and makes beautiful luxuriant salad. Oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 15c; lb. 40c.

**SEVEN TOP.**—The Old standard popular salad variety, grown exclusively for this purpose. Oz. 10c;  $\frac{1}{4}$  lb. 20c; lb. 50c postpaid. By express, oz. 10c;  $\frac{1}{4}$  lb. 15c; lb. 40c.

## Herbs

**LAVENDER.**—Pkt. 5c; oz. 25c.

**SWEET MARJORAM.**—Pkt. 5c; oz. 30c.

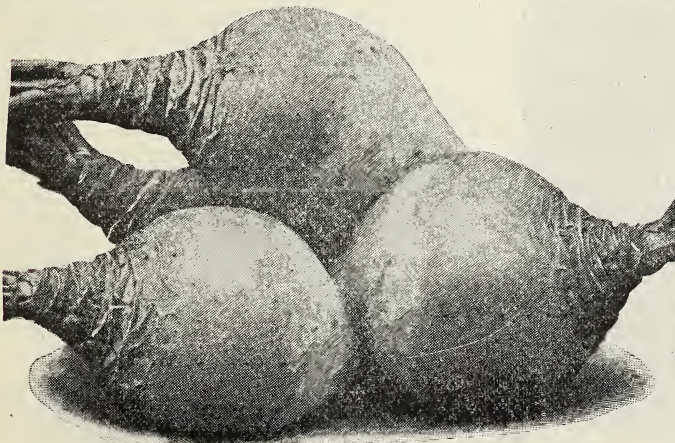
**SAGE.**—Pkt. 5c; oz. 15c.

**THYME.**—Pkt. 5c; oz. 50c.

**SAVOY.**—Pkt. 5c; oz. 15c.

**CARAWAY.**—Pkt. 5c; oz. 20c.

**DILL.**—Pkt. 5c; oz. 20c.



Improved American Purple Top Rutabaga.

All Vegetable Seeds offered in this Catalogue are New Crop, 1921 growth, and produced by the most careful growers in the country. We cannot improve in quality. We try to please our customers in prices.



## Lawn Grasses and Requisites

### PREPARATION AND CARE OF LAWNS.

—In order to secure a satisfactory lawn thorough preparation of the soil is absolutely necessary. The ground should be deeply plowed or spaded, thoroughly pulverized and raked, removing all roots, sticks and stones. After getting the ground perfectly in A1 condition, the seed should be sown at the rate of one pound to 300 sq. ft. From 60 to 70 lbs. to the acre. After the seed is sown, the lawn should be gone over with a heavy roller, or if the ground is too wet, the seed should be raked in lightly with a small hand rake. It is best not to use stable manure unless it is thoroughly rotted, as the same contains numerous seeds which prove a menace to lawns. The best months for seeding are February, March, April, September, October and November. To renew old lawns, rake over the bare and thin spots with a sharp rake, and sow fresh seed, covering the same by reraking, and applying roller.

### GROSSMANN'S EVERGREEN LAWN MIXTURE.

—This special mixture is composed of the very highest grades and most suitable grasses in proper proportion to insure a permanent, smooth and velvety lawn. It is well adapted to various soils, and will last forever with proper care and attention. We recommend this lawn grass to all who are in position to give their lawns proper attention, and who desire the finest texture, color and permanency of lawn. Price, per lb. 40c; 10 lbs. \$3.50 postpaid. By freight or express, 35c per lb.; 50 lbs. at 30c per lb.



Grossmann's Evergreen Lawn Grass.

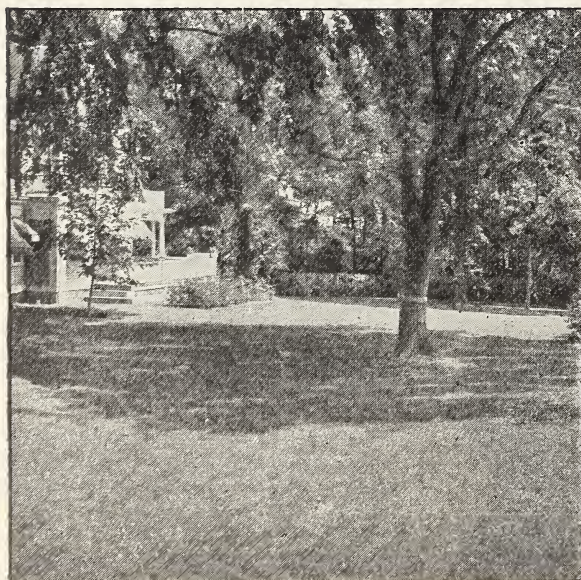
**PURE RAW BONE MEAL.**—The best and most permanent fertilizer for lawns. Should be used freely in the preparation of new lawns, and should be applied at regular intervals to old and established lawns. 5-lb. pkg. 25c; 50-lb. bag, \$2.00; 200-lb. bag, \$5.50.

**SHADY LAWN GRASS.**—This is a special mixture of grasses peculiarly adapted to shady lawns, and will do well under trees and shrubs. Price per lb. 40c; 10 lbs. \$3.50 postpaid. By freight or express, 35c per lb.; 50 lbs. at 30c per lb.

**PURE LAND PLASTER.**—Very beneficial to lawns if applied as a top dressing during the summer whenever the lawns have been cut, retaining and holding the moisture in the land. Price: 200-lb. bag, \$1.75.

**GROSSMANN'S PERMANENT LAWN MIXTURE.**—This mixture of grasses is recommended for country lawns, large areas, and in instances where the facilities for watering and taking care of the same are not as perfect as the city. The mixture consists of hardy grasses combined so as to make a permanent, smooth, green sod, withstanding heat and droughts of summer, as well as cold of winter. Price per lb. 35c; 10 lbs. \$3.00 postpaid. By freight or express, 30c per lb.; 50 lbs. at 28c per lb.

**PULVERIZED SHEEP MANURE.**—A splendid top dressing for lawns, adding new life and strength to the grass. Apply broadcast on lawns and rake in with a sharp tooth rake. 50-lb. bag, \$1.50; 100-lb. bag, \$2.50.



Shady Lawn Grass.



# GRAINS & GRASSES

## THE SEEDING OF GRASS AND CLOVERS

To begin with, let us bear in mind that land requires as much careful preparation and attention for the seeding of these field crops, as it does for the smallest vegetable seeds, and that we cannot expect to harvest two or three tons of hay per acre on land that has not had the proper treatment and nourishment. We should get out of the old habit of making up our mind at the last moment to put this or that piece of land in grass or clover, because, as a rule, this or that land is not in proper condition for seeding; we should try to look and plan ahead from year to year, so our land may be ready and in such physical condition as to insure good returns for what we have done for it.

### PREPARATION OF LAND

Begin the preparation of land by feeding it, viz.: Adding humus through green fallow crops, such as cowpeas, crimson clover, vetch, etc.; any of these crops will more than pay for themselves in either cured or green feed, and the stubble turned under will enrich the soil in nitrogen and humus, as these plants obtain their supply of nitrogen from the air and give it to the soil. Should the land be thin, an application of three to four hundred pounds of acid phosphate per acre will help to give these crops sufficient growth for the purposes desired.

Having supplied the land with food in the form of humus, we should give it a sweetener—Lime—an application of 1,000 to 2,000 pounds per acre, according to the character of the soil, will aid the land to digest the food given it, and will render available for the use of the grass and clover plants, the various plant foods contained in the soil. This application of lime should be turned under with the green fallow, or when land is disked preparatory to seeding. A further application of 400 to 500 pounds of Pure Raw Bone Meal per acre at seeding time will increase the yield of hay and give longer life to the plants.

### PLOWING, DISKING AND SEEDING

In the seeding of grass and clovers, a firm, well-prepared seed bed is a most important factor, and to obtain this the land should be deeply fallowed and allowed to remain so for at least

two weeks before touching further. This allows the ground to settle, weed seeds to sprout (which are afterwards killed by disking), and the air to penetrate the soil thoroughly; after this has been accomplished, disk the land thoroughly until the surface is in first-class condition; then sow the seed carefully, preferably with a Cahoon Seeder, and cover lightly to a depth of about one-half inch; then run the roller over the whole, unless the land is too wet or inclined to bake.

### TIME OF SEEDING

Grass and clovers can be seeded in Spring, in February, March and April, or in Fall, during the months of September and October. In Fall seeding it is customary to sow either oats, wheat or rye with it, which method affords two crops on same land, the grain crop being harvested in early summer, and a cutting of hay being made later in the season. However, it is our belief that better results are obtained by seeding without grain, as generally the grain crop is removed from land during a hot dry spell, and the grass plants, tender from being shaded by the grain, are more or less damaged and killed by the hot sun, the result often being a poor stand, and consequently a short hay crop. A point in favor of the grain addition, however, is the protection the same affords the young grass during the winter.

### PRICES FLUCTUATE

Prices on all Field Seeds are constantly fluctuating, and are subject to change without notice. We will gladly quote lowest current price at any time on application. Prices in this catalogue are prevailing January 1, 1922, and are based on seeds of highest quality in germination and purity.

### NOTICE

Prices quoted in this catalogue on all grasses, clovers, and other field seeds, are f. o. b. Petersburg. If ordered to be sent by mail, refer to "Parcel Post Table" on page 2, and add to remittance accordingly. Cotton bages are charged extra at cost also. Add 35c for a 2½-bushel cotton bag, 25c for a one-bushel bag, and 15c for smaller size bags in ordering such seeds as require a seamless cotton bag to insure safe arrival.







## W. Grossmann & Son's Special Clover and Grass Mixtures

### MIXTURE No. 1

**A Good Mixture for Permanent Pasture on High Land.**—Contains: Alsike Clover, Orchard Grass, Herds Grass, Meadow Fescue, Alfalfa, Perennial Rye Grass. Sow at the rate of twenty-five to thirty pounds per acre. Price per lb., 25c; 50 lbs. and over, 23c per lb.

### MIXTURE No. 2

**A Good Mixture for Permanent Hay on High Land.**—Contains: Orchard Grass, Tall Meadow Oat Grass, Meadow Fescue, Herds Grass, Red Clover, Alsike Clover and Alfalfa. Sow at the rate of 25 pounds to 30 pounds per acre. Price per lb., 30c; 25-lb. lots, 28c per lb; 50-lb. lots and over, 26c per lb.

### MIXTURE No. 3

**A Good Mixture for Permanent Pasture on Low land.**—Contains: Timothy, Herds Grass, Alsike Clover, Meadow Fescue, Blue Grass. Sow at the rate of 25 to 30 pounds per acre. Price per lb., 30c; 25-lb. lots and over 27c per lb.

### MIXTURE No. 4

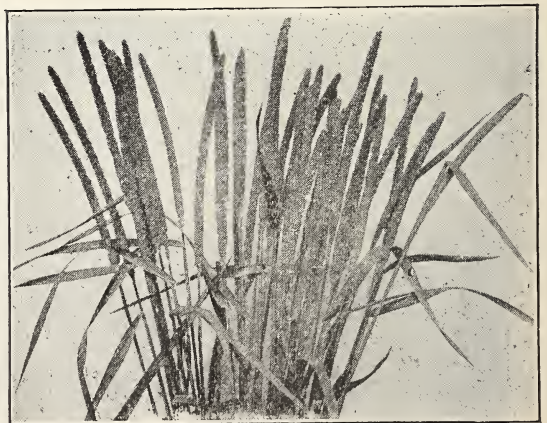
**A Good Mixture for Permanent Hay on Heavy Soils and Low Land.**—Contains: Mammoth Clover, Alsike Clover, Timothy, Herds Grass, Meadow Fescue. Sow 20 to 25 pounds per acre. Price per lb., 30c; 25-lb. lots and over, 26c per lb.

**TIMOTHY.**—This is considered the most nutritious and salable of all hay grasses. Best adapted to clay or heavy loam, rich low lands or bottoms, as well as mountainous districts. Timothy does not root as deeply as other grasses, and should not be sown on lands deficient in humus, nor on light and sandy soil. In this section Timothy is largely sown with Sapling Clover, Herds Grass and Meadow Fescue, which combination on suitable soil will make a large yield of excellent hay and afford good pasturage. Sow this mixture at the rate of eight pounds Timothy, five pounds Clover, five pounds Herds Grass, one-half bushel Meadow Fescue Grass per acre.

If sown alone, use twelve to fifteen pounds Timothy per acre.

Timothy, alone or in a mixture, can be sown in Fall or Spring.

Price, per lb., 10c; bushel, \$3.40.



Timothy.





Kentucky Blue Grass.

**ORCHARD GRASS.**—This is one of the most reliable grasses for hay or pasture, making a quick and vigorous growth, yielding large crops of excellent and nutritious hay, and lasting for years with increasing value if properly taken care of. Maturing early, it generally yields two crops of hay each season. Orchard grass succeeds well on most all soils, but does best on loamy uplands or moderately stiff soil. It gives best results when sown with Tall Meadow Oat Grass and Red Clover. If sown alone for hay, use two bushels per acre; as a mixture, use one bushel Orchard Grass, one bushel Tall Meadow Oat Grass, and eight pounds of Red Clover per acre. If sown for pasturage, use one bushel Orchard Grass, one-half bushel Meadow Fescue, four pounds re-cleaned Herds Grass, three pounds Alsike Clover per acre.

Price, per lb., 25c; bushel, \$3.00.

**TALL MEADOW OAT GRASS.**—This is a very valuable and popular grass for the South, as it withstands heat and drought well, and succeeds better than any other grass on light, medium and sandy soil.

It ripens at the same time as Orchard Grass, and the best results are obtained by sowing with Orchard Grass and Red Clover at the rate of one bushel Tall Meadow Oat Grass, one bushel Orchard Grass, eight pounds Red Clover. If it is

desired to make a pasture after first cutting, add to the above mixture five pounds re-cleaned Herds Grass Seed. If sown alone, use from two to three bushels Tall Meadow Oat Grass per acre. Price, per lb., 35c; bushel, \$3.75.

**MEADOW FESCUE.**—This splendid grass is gaining in popularity throughout Virginia and the South, succeeding well in nearly all sections. It is a splendid Spring and Summer grass, and very useful for Fall and Winter pasturage, remaining green throughout the Winter. It is especially recommended in mixtures in the following proportions: **For Hay**—One bushel Meadow Fescue, five pounds Herds Grass, six pounds Timothy per acre. **For Permanent Pasture**—one bushel Meadow Fescue, four pounds Herds Grass, five pounds Timothy, one-half bushel Orchard Grass, one-half bushel Tall Meadow Oat Grass, three pounds Alsike Clover per acre. If sown alone, use two bushels per acre. Sow in Spring or Fall.

Price, per lb., 25c; bushel, \$3.00.

**RED TOP, or HERDS GRASS.**—This is undoubtedly one of the most satisfactory grasses throughout the South. It is adapted to all soils, succeeding well on light, sandy soils, as well as stiff uplands and low grounds, on dry hillsides as well as wet bottoms. Being once established, it thickens and improves each year, making it exceptionally valuable as a permanent pasture. As a hay crop, it should be sown with Timothy and Sapling Clover at the rate of five pounds Herds Grass, eight pounds Timothy, four pounds Sapling Clover per acre. As a permanent pasture, it should be sown in a mixture of six pounds Herds, eight pounds Timothy, four pounds Alsike Clover, one-half bushel Orchard Grass per acre. This mixture can also be cut for Hay, and then be turned into pasture. If sown alone, Herds Grass should be sown at the rate of eight to ten pounds per acre. Can be sown either in Fall or Spring.

Price, Fancy re-cleaned Herds Grass, per lb., 28c; per 100 lbs., \$25.00.

**PERENNIAL RYE GRASS.**—A quick growing, early maturing grass, furnishing good grazing early in the season. Can also be used for hay, in a mixture of one bushel Orchard Grass, one bushel Tall Meadow Oat Grass, and one bushel Perennial Rye Grass. Can be sown in Fall or Spring.

Price, per pound, Perennial Rye Grass, 15c; per bushel, \$2.00.



Orchard Grass.

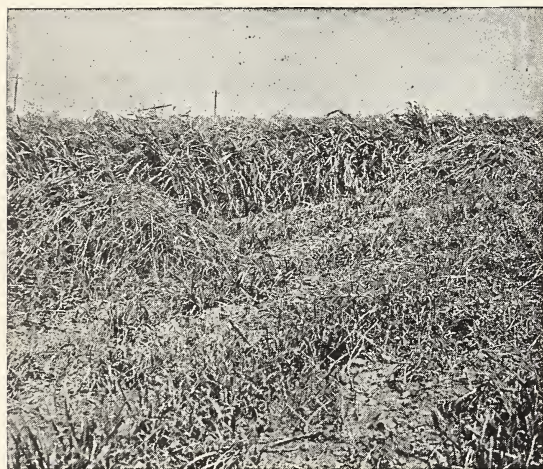


**KENTUCKY BLUE GRASS.**—This is the richest and most nutritious of all pasturage grasses, and should be largely used in pasture mixtures except on light and sandy soils. Blue Grass is best adapted to soil with limestone foundation, but can be made to grow if proper fertilizing and liming is given. A mixture of two bushels Blue Grass and eight pounds re-cleaned Herds Grass per acre on fertile soil, with red clay subsoil will give an excellent pasture. Can be sown in the Fall or Spring.

Price, per pound, 50c; per bushel, \$6.00.

**SUDAN GRASS.**—A sweet, heavy yielding annual grass, yielding from three to four cuttings of good hay. Very thick growing and withstands drought exceptionally well. Recommended for a quick Summer hay crop, or green food during the Summer months. Should be sown when the ground and weather becomes warm in the Spring, either in drills two feet apart at the rate of about ten pounds per acre, or broadcasted at the rate of 25 to 30 pounds per acre. On account of its rapid and luxuriant growth, Sudan Grass is trying on the soil, and should not be sown on thin land.

Price, per pound of certified Sudan Grass Seed, free of Johnson Grass, 10c; in lots of 20 to 50 lbs., 7c per lb.; 100-lb. lots, 6c per lb.



Sudan Grass.

**ITALIAN RYE GRASS.**—Recommended principally for Fall seeding. Will yield two to three cuttings of nutritious hay per year, and particularly adapted for rich, loamy soils and low grounds.

## Clovers

**RED CLOVER.**—This is the old standby of all clovers, and is more largely used than any other, for hay, pasturage, and improvement of the soil. Sow either in Fall or Spring, alone or in mixtures, and yields from one to three cuttings per year. In this section, it is largely sown in February and March on Fall sown grains, by running a harrow over the grains, sowing the clover and following with a pea weeder or harrow cross-wise. This not only puts the seed in properly, but gives the grain a much needed cultivation. Red Clover gives best results as a hay crop when used in the following mixture: Eight pounds clover, one bushel Orchard Grass, one bushel Tall Meadow Oat Grass per acre. If it is



Alsike Clover.

desired to turn the field into pasturage after cutting, add to the above mixture six pounds of Herds Grass Seed. If sown alone, use 10 to 12 pounds of Red Clover Seed per acre.

Price, per pound, 28c; bushel, \$14.00.

**MAMMOTH, or SAPLING CLOVER.**—This clover is identical in habits and characteristics with the Red Clover, with the exception that it usually grows larger and matures two to three weeks later. As a soil improver it is preferred to the Red Clover on account of the extra growth. Maturing at the same time as Timothy, it is at its best as a hay crop if sown at the rate of seven pounds clover and ten pounds of Timothy per acre. As a pasture mixture, add six pounds Herds Grass per acre to the above mixture. Can be sown like Red Clover, in Fall or Spring.

Price, per pound Sapling Clover, 30c; per bushel, \$15.00.

### Crimson Clover.

**ALSIKE CLOVER.**—This clover grows thicker than Red Clover, though not quite so tall. It is found to be hardier, resisting heat, drought, and cold weather better than other clovers. In this section, the Alsike Clover has proven to give better stands, better crops and better grazing than the Red Clover, and it is fast growing in popularity. We strongly recommend Alsike Clover in mixtures, especially for pasturage. Sown



Red Clover.





Crimson Clover.

alone, 6 to 8 pounds is required per acre. As a lowland pasture mixture, use six pounds Herds Grass, four pounds Alsike, six pounds Timothy per acre. Can be sown in Spring or Fall.

Price, per pound Alsike Clover, 25c; per bushel, \$13.00.

#### WHITE BOKHARA, or SWEET CLOVER.—

This is a very valuable clover for Virginia, and should be used very largely for the redemption of worn out soils, and on hillsides subject to wash, as it will make a good growth on the thinnest of soils, adding humus and body to the land and inoculating the same for other clovers and alfalfa. It makes a nutritious hay if cut young, and affords splendid pasturage. The life of this clover is two years, but will reseed itself if allowed to go to seed the second year. Can be sown in Fall or Spring at the rate of 15 to 20 pounds per acre.

Price, per pound, hulled and scarified seed, 15c; 10-lb. lots, 10c per lb.

**JAPAN CLOVER.**—This has proven to be a very valuable crop for the South. Both as an excellent pasturage and as a soil improving crop. It will grow on most any soil, and is especially recommended for the redemption of hillsides and barren and waste lands. Should be seeded in March or April at the rate of 10 to 15 pounds per acre. It can also be sown in connection with Herds Grass for pasturage at the rate of ten pounds Japan Clover and eight pounds Herds Grass per acre.

Price, per pound, 25c; per bushel of 25 lbs., \$5.50.

**CRIMSON CLOVER.**—This is our great soil improver and redeemer of worn out lands. A crop of crimson clover plowed under is equal to a heavy application of stable manure, and is the cheapest and most effective improver of soils in the agricultural world. It is an annual plant, and is sown in July, August, September and October at the rate of 15 to 20 lbs. per acre. It has been very generally sown in corn at the last working in July and August, but we are rather inclined to advise the discontinuance of this method, as our experience has taught and shown us that these early seedings are very uncertain, and have cost our farmers hundreds of thousands of dollars loss in seed. We would rather recommend September and October seedings. Crimson Clover offers a cover crop for winter, early pasturage, and green feed for spring, and nutritious hay crop and increased fertility of the soil. Every available foot of land on the farm should be sown in Crimson Clover.

Price, per pound, 13c; per bushel, \$7.00.

**WHITE DUTCH CLOVER.**—Largely used in lawn and pasture mixtures, and is well adapted to our soils. It is voluntary in growth and will cover the ground well and makes a good pasturage. Generally sown in a mixture with other grasses; not suitable for hay.

Price, per lb. 50c.



Alfalfa.



**WHITE BLOOMING CRIMSON CLOVER.—**

Same as the red crimson clover, but has white bloom, and is later in maturity. The white bloom is more desirable for hay and forage, and when sown with rust-proof oats makes the most desirable hay. We also recommend very highly from personal experience, the seeding of rust-proof oats, white bloom crimson clover and hairy vetch, which combination yields exceedingly heavy crops of most nutritious hay. This combination should be sown at the rate of 1½ bus. rust-proof oats, 10 lbs. white bloom clover, 10 lbs. hairy vetch per acre.

**Price on application.**

**Alfalfa**

Alfalfa is acknowledged the king of all hay crops. It will yield more cuttings and make larger yields of most nutritious hay than any other crop. Once established, it will last for years, giving 4 to 5 cuttings each season.

**PREPARATION OF SOIL AND METHODS OF SEEDING**

Alfalfa should be sown on improved soils, care being taken that the same is absolutely perfect in drainage, with a clay subsoil. It will not thrive on land that is inclined to be wet or where roots will reach water near surface. The land should be sown in cowpeas or crimson clover, one or two years previous to the seeding of the crop. It should then be limed at the rate of one to two tons per acre, and should be thoroughly and well prepared with a firm seed bed before seeding. The seed should be sown in September at the rate of 25 to 30 lbs. per acre, lightly covered and rolled. An application of 400 to 600 lbs. of pure bone meal per acre at the time of seeding will prove a paying investment. Alfalfa should be cut before it reaches full bloom, which causes it to stool out better, and thicken root growth. Alfalfa should always be sown alone, without other grasses or clovers. If the land requires inoculation, we recommend soil inoculation at the rate of 500 to 600 lbs.

of soil derived from well established alfalfa fields, or inoculation of the seed with Farmogerm. In seeding grass and clovers, we or cultures. In seeding grass and clovers, we recommend a mixture of 3 to 4 lbs. alfalfa seed per acre on all lands adapted to alfalfa. This gives the necessary inoculation in case the farmer determines to sow alfalfa in the future.

We have an exceptionally fine stock of high-grade, American Grown Alfalfa Seed to offer this year, testing over 99½ per cent purity, with a germination test of from 92 to 95 per cent.

**Price, per pound, 25c; per bushel, \$13.50.**

**FEEDS! FEEDS!**

For the convenience of a large number of our customers and friends we carry in stock at all times a representative line of high class **DAIRY FOODS, HOG FEEDS, and HORSE FEEDS, also FEED OATS, MIDDLING, BRAN, COTTON SEED MEAL, Etc.** Our efforts in this line are to supply our customers with such feeds as they need at the lowest price the market affords, and we are very often in position to save our customers anywhere from \$1.00 to \$5.00 per ton on their requirements.

**We are distributing agents for**

**UNICORN DAIRY RATION**

**undoubtedly the best milk producing feed manufactured. If you are not a user of UNICORN, try a bag or two and convince yourself.**

**When in need of feeds of any description, drop us a postal card and we will quote by return mail.**







A Field Scene of Burt, or Ninety-Day Oats.

## Seed Oats

Our Seed Oats are all selected stocks, re-cleaned and sacked in even weight five-bushel somewhat taller. Price per bu. 90c; 10-bu. lots 85c per bu.; 25-bu. lots 80c per bu.

**BURT, or NINETY-DAY OATS.**—This is undoubtedly the best spring oat. It is very early in maturity, free from rust, hardy and a vigorous grower, making a large yield of good, hard grain. Resembles the red rust-proof, but the grain is not as large or as heavy; growth is somewhat taller. Price per bu. 90c; 10-bu. lots 85c per bu.; 25-bu. lots 80c per bu.

**VIRGINIA GRAY WINTER, or TURF OATS.**—This is the old standard and favorite winter oat for Virginia, and is more generally sown than any other oat. Is very hardy, and a sure cropper. While generally sown in the fall, it can be sown in the spring up to about March 10th to 15th. Price per bushel, \$1.10.

**TEXAS RED RUST PROOF OATS.**—A very popular and desirable oat throughout the South. Especially adapted for heavy soils of good fertility, where it yields abundant crops of large, heavy grain. This variety does not grow as tall as the Virginia Gray, and requires rather better land than the same. It is largely used for sowing with vetch and white bloom crimson clover as a hay crop. Can be sown either fall or spring. Price per bushel, 90c; 10-bu. lots, 85c per bu.

**BANCROFT OATS.**—Experiments made with this strain of oat proves it to be one of the largest yielding and surest-cropping of all oats. It is a rust proof variety, maturing in about 95 days from seeding, making heavy yields of grain and abundance of straw. Price per bushel, \$1.00.

**APPLER OATS.**—Improved variety of the Rust Proof type. Makes a strong, quick growing oat; large bunchy heads, with heavy grain. One of the best and most reliable rust proof oats for the South. Price per bushel, \$1.00.

**WHITE SPRING OAT.**—A large, heavy white oat for spring seeding only; makes a splendid yield on good land. Price per bushel, 75c.

## Soja Beans

The use of Soja Beans is increasing rapidly everywhere, as farmers are beginning to realize what a valuable and important forage crop they are. Sown broadcast at the rate of one and a half bushels per acre, they make practically a balanced ration when cut for hay; sown with cow peas at the rate of one-half bushel of beans

and one bushel cow peas, they increase the value of the hay by 50 per cent. They are also unsurpassed as a hog pasture.

**MAMMOTH YELLOW.**—The largest growing and most popular of Soja Beans, requiring a full season for maturity. Surpasses all other varieties in yield for both forage and seed. Per bushel, about \$2.50.

**TAR-HEEL BLACKS.**—Slightly earlier in maturity than Mammoth Yellow. Heavy growth of vines, upright in habit, and growing in popularity wherever used. Per bushel, about \$2.50.

**HOLLYBROOK EARLY.**—Matures two to three weeks earlier than the Mammoth Yellow. Makes a good yield of forage and peas, and is very desirable on account of its earliness.

Price on application.

## Ninety-Day Velvet Beans

This new Velvet Bean is a great acquisition for Virginia farmers. It is the quickest growing, earliest maturing of the Velvet Beans, and unlike the other varieties, it will mature in Virginia. It is a wonderful soil improver and forage crop and the best of grazing for cattle and hogs. For the redemption of worn out soils, this bean is unequalled. Pk. 75c; per bu. \$1.75.



A Field of Soja Beans.

Prices on all field seeds are constantly changing. Before placing your order, write us for firm prices on your requirements. This will give you an opportunity of buying at the lowest current prices.



## FIELD OR COW PEAS



Cowpeas are one of the most important, most advantageous, and best paying crops for the farmers throughout the South. They produce hay, they produce ensilage, they produce excellent grazing for hogs and cattle, and they furnish the farmer with the best and cheapest fertilizer on the market. They can be sown from the first of May to the middle of August.

**AS A HAY.** They produce from one and a half to two and a half tons of the best nutritious hay, relished by horses and all stock, leaving the land in a much better condition. They should be sown broadcast or in drills, at the rate of one and a half to two bushels per acre; the thicker the stand, the better quality of hay.

**AS AN ENSILAGE.** They are unsurpassed, being more nutritious than green corn.

**AS A FERTILIZER.** Gathering the nitrogen and ammonia from the air, and storing the same in their vines and roots, they enrich the soil faster, and more lastingly than any method of fertilization known to the farmer, without extra cost. On good land, is it not necessary to fallow the entire crop—the vines can be cut for hay, and the stubble and roots will furnish the fertilizer for the following crop. Where it is desired to improve thin and worn-out lands with cowpeas, this can be done by applying two to four hundred pounds of High Grade Acid Phosphate or 8-2-2 Guano per acre at time of seeding. In these cases, it is best to give the land the benefit of the entire crop, by fallowing the same.

**SEEDING IN CORN.** Farmers in this section are sowing thousands of bushels of cowpeas in their corn at the last working. These peas can be fallowed after the corn is taken off, or they may be allowed to stay on the land, affording a splendid mulch and Winter covering.

**AS A HOG PASTURE.** A mixture of Cowpeas, Soja Beans, with Kaffir Corn, or common White Field Corn, will afford a most luxuriant grazing for hogs, and will minimize the cost of producing the meat for market.

Prices on Cowpeas fluctuate, and are subject to change.

**BLACK PEAS.**—This is the standard variety, and very largely grown in Virginia. It is very prolific, making a fine growth of vine and leaves, and a good yield of peas. Rather inclined to shed its leaves, and is not considered the best variety for hay on that account. Makes a fine hog pasture. **Per bushel, about \$3.00.**

**NEW ERA.**—An extra early maturing variety of upright growth. Not as heavy in forage as others, but very prolific in peas. **Per bu., \$2.75.**

**WONDERFUL, or UNKNOWN.**—This variety makes an enormous and remarkable growth of vines, requiring full growing season. The vines are of the running habit, on account of which the hay is rather hard to cut and cure. One of the best varieties as a soil improver. **Per bushel, about \$2.75.**

**WHIPPOORWILL.**—An upright, early maturing variety of great popularity. Makes a good growth of vine, easily cut and cured. One of the best peas in cultivation. **Per bushel, \$2.75.**

**CLAY.**—A vigorous grower, and a heavy yielder of hay, maturing a little later than the Black Pea. **Per bushel, \$2.75.**

**IRON.**—A variety of Cowpeas remarkable for its vigorous growth, and its disease resisting qualities. Retains its leaves and foliage longer than other varieties, and is on this account one of the very best for hay. It is also a very prolific bearer of peas. **Per bushel, \$3.00.**

**TAYLOR.**—A large speckled pea, making an abundant growth of vine, of upright habit. Heavy yielder of peas, and a good variety for a hay crop. **Per bushel, \$2.75.**

**MIXED COWPEAS.**—A general mixture of the principal varieties grown. A great many farmers prefer sowing mixed peas for hay, as experience has shown that they get better and more hay than by seeding one variety. **Per bushel, \$2.50.**

**MIXED COWPEAS with SOJA BEANS.**—For those of our customers who desire a mixture of cowpeas and soja beans, we are prepared to give them a splendid mixture in proper proportions. It is very desirable to sow soja beans with cowpeas, as the beans are upright in growth, and help to hold up the peas, besides adding considerable to the nutritive value of the pea. **Per bushel, \$2.50.**

### EDIBLE VARIETIES

**EARLY RAMSHORN BLACK EYE.**—A large second early black eye pea of splendid quality. A great favorite with truckers and market gardeners as a green pea. **Price per qt. 20c; per peck, \$1.25; bushel, 4.00.**

**EXTRA EARLY BLACK EYE.**—An extra early strain of the well known black eye pea. Of upright growth, bushy, very prolific in pods; of good flavor, and especially used for early marketing of green shelled peas. **Price per qt. 25c; peck, \$1.50; bushel, \$5.00.**

**LARGE BLACK EYE.**—A well known large type of the original black eye pea. Later in maturity than Ramshorn and Extra Early, but more prolific and a sure cropper. **Price per qt. 25c; peck, \$1.25; bushel, 4.00.**

Prices on all Field Seeds are constantly changing. Before placing your order, write us for firm prices on your requirements. This will give you an opportunity of buying at the lowest current prices.





Golden Millet.

## Golden Millet

Golden Millet makes a large yield and most nutritious hay crop. Quick growing and most easily cured. Should be sown on good land only, at the rate of  $\frac{1}{2}$  to  $\frac{3}{4}$  bushel per acre, and should be cut while in bloom before seed hardens, from the middle of May to the end of July.

Tennessee grown.—Price per bushel, \$2.00.

Southern grown.—Price per bushel, \$1.75.

## Winter Rye

Largely cultivated for pasturage in winter, for early green food, as a cover top, and for fallowing purposes in spring. Price on application in season.

## Winter Barley

Sown in the fall for winter and spring pasturage. Price on application in season.

## Seed Wheat

We carry a full stock of all the leading varieties during seeding season. Price on application.

If your Grain crops are of a sickly appearance and are not showing any signs of improvement by March or April, run a sharp tooth harrow over the same, and sow broadcast about seventy-five pounds Nitrate of Soda per acre, then follow with pea weeder crosswise. Results will surprise you.

## Canada Field Peas

Canda Field Peas with oats make a very desirable hay. They should be sown in January or early in February to get best results. Sow at the rate of  $1\frac{1}{2}$  bushels of Oats, and 1 bushel of Canada Field Peas per acre.

## White Navy Beans

Grown for the dried bean only. Should be planted in June or July in 3 ft. rows. Price per qt. 20c; pk. 90c; bu. \$3.50.

## Kaffir Corn

This is a very popular forage crop. Makes a heavy growth and is very nutritious. When allowed to mature the grain makes a valuable feed for stock or poultry. Kaffir corn is also sown with cow peas to enable the cow peas to grow up on the corn and make harvesting easier. Price per lb 10c; bushel of 50 lbs. \$2.00.

## Sorghum

**SUGAR DRIP SORGHUM.**—A heavy yielder of nutritious forage; very juicy and sweet. Makes a large yield of syrup, which is of superior quality. Price per lb. 10c; pk. 90c; bu. \$2.50.

**EARLY AMBER SORGHUM.**—This furnishes a large yield of very nutritious forage, and is used in the green state or cured. On good land it will yield 2 to 3 cuttings a year. It is highly recommended when quick growing, green food is desired. Price per lb. 10c; pk. 60c; bu. \$2.00.

**EARLY ORANGE SORGHUM.**—Similar in growth and character to the Early Amber, but considered a heavier yielder. Price per lb. 10c; pk. 60c; bu. \$2.00.



Seed Wheat.





Hairy Vetch.

## Vetches

**HAIRY, or SAND VETCH.**—This great forage crop is rapidly becoming a favorite throughout the South. Generally sown with oats, in which combination it yields heavy crops of the very best kind of hay. Sow in September at the rate of 20 lbs. of Vetch and  $1\frac{1}{2}$  bushels of oats per acre. It has been customary to sow from 30 to 35 lbs. per acre, but our experience has taught us that by seeding 15 to 20 lbs. with oats, we get much better hay, and have much less trouble in cutting and curing the same. A mixture which has proven very successful in this section is  $1\frac{1}{2}$  bushels of rust proof oats, 15 lbs. Hairy Vetch, and 10 lbs. of white bloom crimson clover per acre. We recommend this mixture, and know it will please. Hairy Vetch is a great improver of soil, and wherever it is used, the land is left in much better shape. **Price per lb. 13c; 100 lbs. at 12c per lb.**

## Buckwheat

A very desirable crop for late summer. Easily grown and affords splendid poultry food. Is also considered an improver of soil. We recommend the seeding of buckwheat and crimson clover together at the rate of 15 to 20 lbs. of crimson clover and  $\frac{1}{2}$  bu. of buckwheat per acre. The buckwheat will grow rapidly and shade the crimson clover from the hot sun, insuring a stand of clover at all times. When buckwheat is ripe, it can be harvested and stored away for chicken feed. In this way, you can make two crops from one seeding, and are always assured a good stand of crimson clover which is generally very hard to get in the early seeding.

**JAPANESE.**—This variety ripens a week earlier than Silver Hull, and kernels are larger, and makes a heavier yield. **Price per peck, 60c; bushel, \$2.00.**

**SILVER HULL.**—A favorite sort recommended for the fine quality of flour. **Price per peck, 75c; bushel, \$2.50.**

**SPRING, or OREGON VETCH.**—Adapted for spring sowing, and usually sown with some variety of spring oats. Has the same characteristics as hairy vetch. **Per lb. 10c; 100 lbs. \$8.00.**

## Dwarf Essex Rape

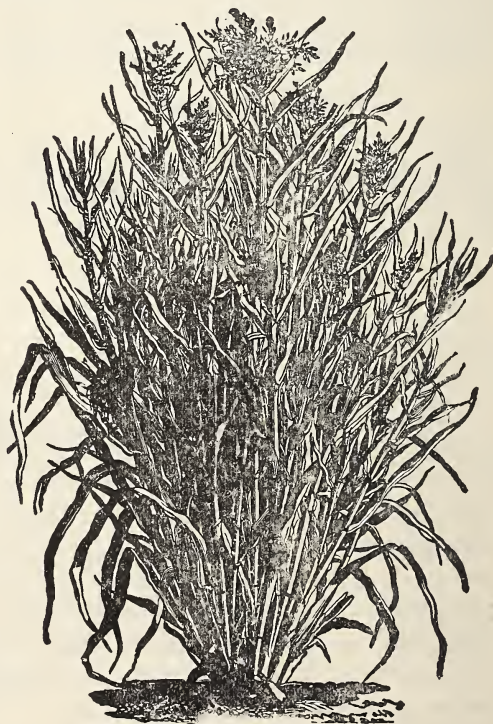
Excellent for grazing for sheep, hogs or any kind of stock; furnishing rich and nutritious pasturage 6 to 8 weeks from time of sowing. Is largely used for green feed for poultry. Can be sown most any month in the year, at the rate of 5 to 8 lbs. per acre. **Price per lb. 15c; 10-lb. lots at 10c; 50 lbs. at 7c per lb.; 100 lbs. \$6.50.**

## Teosinte

This is a valuable fodder plant, resembles corn in growth, but with larger leaves and sweeter stalks, which yield enormous crops; if planted on rich soil, can be cut 5 to 6 times a year. Will grow to a height of from 10 to 14 ft. Drill in May or June at the rate of 2 lbs. per acre. Rows 4 feet apart. **Price per lb. 60c.**

## Spanish Seed Peanuts

We make a specialty of Hand Picked and Hand Shelled Spanish Peanuts for seed purposes. Our stocks are carefully selected, screened to a uniform size, and carefully handled throughout, insuring a seed of highest germinating qualities, and free from imperfect and split peas. Our peanut planters realize the superiority of our Hand Shelled stock over the general run of seed as they can figure without loss on the exact quantity per acre to get a full and uniform stand. **Prices fluctuates. Current price on application.**

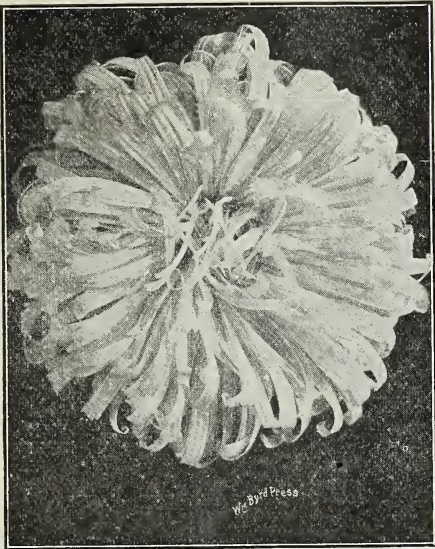


Teosinte.



# FLOWER SEEDS

Our flower seed list comprises the best selections of all standard varieties of flowers usually found in the garden, and all varieties listed here are popular and are deserving of a place in every flower garden. The letter "A" after the name of the flower indicates that the flowers are annuals, blossoms only the first year, and the seed should be planted each year. The letter "P" indicates that the variety is a perennial, and blossoms for several years after sowing.



Aster

**AGERATUM (A).**—A beautiful hardy annual. The flowers are borne in dense clusters and are very useful for bouquets. The plants are very attractive in the garden, being covered with bloom nearly all summer.

**Mixed Colors.**—Pkt. 5 cts.

**SWEET ALYSSUM (A).**—A hardy annual which begins to flower when very young, and is literally covered almost all the season with its sweet white flowers. It is especially adapted to borders or for rock work in the summer, and may be used effectively in window boxes for blooming. **Pkt. 5 cts.**

**AMARANTHUS (A).** *Love Lies Bleeding.*—These plants afford brilliant contrasts of color, being useful for tall border and groups, also where foliage effects are desired. The leaves and stems are of different shades of red, blended with green; two to three feet high. **Pkt. 5 cts.**

**ANTIRRHINUM — Snapdragon (A)** — Well known, showy and useful border plants, producing flowers of a great variety of brilliant and handsome colors. Very effective in beds, succeeding in any good garden soil. **Pkt. 5c.**

**ASTERS (A).**—These well-known, beautiful and popular annuals are very desirable for bedding, being in bloom when most other plants are over. Very useful for cut flowers and for bouquets.

**German Quilled (China Aster).**—The familiar double Aster with quilled petals. Exceedingly showy and excellent for cutting for vase decorations. The large, brilliant, daisy-like flowers with yellow centres are produced in profusion. **Pkt. 10c.**

**Victoria.**—The most popular variety of Asters, and very desirable for bedding, and useful for cut flowers and baskets.

**In separate colors, pink, white, and blue, per package, 10 cts; mixed colors, per package, 10 cts.**

**BALSAM—Touch=Me=Not (A).**—Also known as "Lady Slipper." A tender annual with brittle stems and foliage. Grows about 12 inches high. Flowers both single and double, in bright colors and variations; are wax-like and very attractive. No flower is more easily cultivated, and it succeeds in most any good soil.

**Double Mixed.**—Pkt. 5 cts.

**BALSAM PEAR (A).**—An ornamental climber growing to height of 12 to 15 feet. The fruit is pear-shaped, and when preserved in alcohol is said to be useful in relief of pain. **Pkt., 5 cts.**

**BACHELOR'S BUTTONS—Globe Amaranth (A).**—A well known and popular everlasting flower which forms bushy plants about 2 feet high, and bearing sometimes hundreds of flowers. Excellent as border plants, and very useful for winter decorations. If cut when well natured will retain their beauty throughout the winter.

**Mixed.**—Pkt. 5 cts.; oz. 75 cts.

**BALLOON VINE (A).**—A rapidly growing climber of attractive foliage, and deriving its name from the Inflated Seed Pod, resembling a balloon. **Pkt. 5 cts.**

**CARNATIONS (P).**—These well-known flowers are easily grown from seed, and very free blooming, the flowers being bright-colored and with a most delicious clove-like fragrance. Excellent bloomers in the garden or for winter flowering.

**Marguerite.**—An extra vigorous race, especially adapted for out-of-door culture. The plants are trim in habit, perpetual and flower abundantly in 5 months from sowing the seed. They are highly fragrant, and have beautiful double flowers. **Pkt. 10 cts.**

**Double Mixed.**—A mixture of all colors and types. **Pkt. 10 cts.**



**CALENDULA — Pot Marigold (A).**—Very hardy annual, one foot high. Has showy flowers blooming until frost and producing a fine effect in borders. It is of easy culture and is desirable for rather inferior soils, where less sturdy flowers do not thrive.

**Mixed Varieties.**—Pkt. 5 cts.

**CANDYTUFT (A).**—Popular favorites, flowering profusely the whole summer. Very valuable for edgings and borders, fairly covered with masses of white and various colors. Height 1 foot. Of easy culture. **White.**—Pkt. 5 cts. **Crimson.**—Pkt. 5 cts.

**Fancy Mixed.**—Pkt. 5 cts.; oz. 40 cts.

**CALLIOPSIS OR COREOPSIS (A).**—Beautiful showy summer bedding annuals with large bright flowers of golden yellow, varied with rich brown. Excellent for cutting and decorations.

**Mixed.**—Pkt. 5 cts.; oz. 35 cts.;  $\frac{1}{4}$  lb. 50 cts.

**CANTERBURY BELLS—Campanula, Cup and Saucer (P).**—Handsome, hardy biennial of stately growth, rich color and profuse bloom. Succeeds best in light, rich soil and in the fall should be transplanted or thinned to 18 inches or 2 feet apart and given some protection in severe winter weather. Has large, bell-shaped flowers which are strikingly effective; colors white, and various shades of violet, rose, lilac and blue. Height, 2 to 4 feet. One of the wild forms of *Campanula* is the "Blue Bells of Scotland." Pkt. 5 cts.

**CELOSIA—Cock's Comb (A).**—A half hardy annual, growing 6 to 8 inches high, bearing a wide wavy blossom that resembles a Cock's Comb. Fine for massing or border work. Pkt. 10 cts.

**Plumed Variety.**—Pkt. 10 cts.

**Comb Variety.**—Pkt. 10 cts.

**CENTAUREA, GYMNOCARPA—Dusty Miller (P).**—Valuable because of its silvery foliage, and graceful drooping habit of growth. Half hardy perennial; one-half to two feet high. Pkt. 5 cts.

**CENTAUREA "CORN FLOWER".**—Mixed colors, pkt. 5 cts.

**CHRYSANTHEMUM (A).**—These annual Chrysanthemums have a charm of their own. The blooming season is from very early summer until frost, and their gay colors make beds or borders attractive during those hottest weeks of summer when flowers are apt to be scarce.

**Double Mixed Varieties.**—Pkt. 10 cts.

**Single Mixed.**—Pkt. 5 cts.

**COSMOS (A).**—These well-known flowers are of easy culture and are almost indispensable for cutting and garden decorations, their lovely blossoms being produced in greatest profusion after most other flowers have succumbed to frost. Few flowers have grown more into popularity in late years than the *Cosmos*, and we recommend them to all wanting large plants in their gardens.

**Mammoth Mixed.**—The flowers are double the size of the old, large flowering *Cosmos*, measuring from 3 to 4 inches across. The petals are

large, overlapping, forming perfectly round flowers, deeply ribbed and of good substance. Pkt. 10 cts.

**DAISY (P).**—These are charming little plants for edging and borders. The daisy has been so far improved by selection and careful cultivation that good seed will give at least 80 per cent of double flowers that are as large as any of the named sorts that are propagated by the division of the roots and are sold at high prices. The plants bloom well in the house and are splendid for early spring and summer flowering when planted in a slightly shaded situation. Tender perennials, about 6 inches high.

**Mixed Colors.**—Pkt. 10 cts.

**White Colors.**—Pkt. 10 cts.

**AFRICAN DAISY.**—Forms compact plants about one foot high. Branches freely and is covered with daisy-shaped flowers of a glossy yellow, with dark centers, blooms entire summer. Pkt. 5 cts.

**SHASTA DAISY.**—Flowers four inches in diameter, and blooms for months, easily grown. Pkt. 10 cts.



Cock's Comb.

**DIGITALIS, or FOX GLOVE (P).**—A stately, old-fashioned border plant affording dense spikes of brilliantly colored flowers which are terminal and half as long as height of the plant. Colors, white, lavender and rose. Does not usually bloom until the second year. Thrives best in cool, shady locations.

**Fine Mixed.**—Pkt. 5 cts.

**DIANTHUS, or PINKS (P).**—These popular flowers, commonly known as Chinese and Japanese Pinks, have been for a long time very popular and deservedly so. In diversity of rich and beautiful markings they have but few rivals, and in ease of culture, freedom of bloom and almost certain satisfactory results, they stand close to the *Nasturtium*. Hardy biennials blooming the first year from seed. So easily grown from seed as to be rarely treated as biennials. Seed may be sown in the open ground any time in May.

**Chinensis.**—The familiar old Chinese or Indian Pink, easily grown and very showy. Our mixture contains a large assortment of varieties. Pkt. 10 cts.



**ESCHOLTZIA—California Poppy (A).**—The beautiful State flower of California. It blooms almost continuously throughout the season. A bed of these in full bloom gives a brilliant color effect. The foliage is finely cut and has a bluish tinge, delicate and very attractive. They are of the easiest culture. Can be sown in any soil, but the better the soil the larger the plants and blossoms. It is best to sow the seed in the garden where the plants are to remain, as they do not transplant easily. **Pkt. 5 cts.**

**FORGET-ME-NOT—Myosotis (P).**—The favorite old border plant that succeeds best in moist situations. It comes into blooming early and the little star-shaped flowers appeal to every heart. Hardy perennials. **Pkt. 10 cts.**



**Dianthus.**

**FOUR O'CLOCK—Marvel or Peru (A).**—A well-known favorite plant, bearing freely funnel-shaped white, red and striped flowers, which open about four o'clock in the afternoon, remaining open all night; and usually are closed before noon the next day. Sow seed in spring in open ground in any good garden soil. The plants should be given plenty of room, about three feet apart. **Pkt. 5 cts.**

**GALLARDIA (A).**—A very showy, hardy, garden plant, with brilliant flowers in scarlet and yellow, blended and shaded. Blooms freely from early summer till autumn. Grows one and one-half to two feet high, and the blossoms are borne on long, slender stems. **Pkt. 5 cts.**

**HOLLYHOCK (P).**—Entirely different and more beautiful than the plant of twelve years ago, being much more compact in growth, the flowers larger, more richly colored and of better form. For a background to a flower garden nothing is better. Height 5 feet. Tie to stakes if the stalks show a disposition to fall. The double varieties are the most desirable.

**Double Mixed Varieties.—Pkt. 10 cts.**

**HELIOTROPE (P).**—May be grown from seed first season, very fragrant. Height two feet. **Mixed colors, pkt. 10 cts.**

**KOCHIA, or BURNING BUSH.**—Grows from two to two and one-half feet high, is densely covered with small feathery light green foliage, which, as the summer advances gradually changes to crimson. Very ornamental, and of easy culture. **Pkt. 5 cts.**

**LARKSPUR (A).**—The Larkspur is one of the handsomest and most useful of plants. The colors are extremely beautiful and in mixed borders its profuse masses of purple, white and red show splendidly, and for large gardens is invaluable. Height, 12 inches.

**Double Dwarf Varieties Mixed.—Pkt. 5 cts.**

**LOBELIA (A).**—Profuse blooming little plants, of great value for edging, hanging baskets or vases. It is completely covered with flowers for a long time. If given plenty of water they may be kept in flower all summer. **Pkt. 10 cts.**

**LOVE-IN-A-MIST—Nigella (A).**—A hardy annual one-foot high, with finely cut foliage. Oddly shaped blossoms in blue and white, and curious seed pods. Of easy culture. **Pkt. 10 cts.**

**MARIGOLD (A).**—A hardy annual, shrubby plant, in dwarf and tall varieties, growing from 6 inches to 3 feet high. Foliage bright green, deeply cut, and graceful. The flowers are various shades of yellow and brown. The tall varieties are very valuable for large bedding or background work, and the dwarf varieties for borders. No flower garden seems complete without this fine old-fashioned plant.

**African.**—The best tall variety with large, double blossoms. **Pkt. 5 cts.**

**Dwarf French, Double Mixed.—Pkt. 5 cts.**

**MIGNONETTE (A).**—This popular little flower is well known as one of our most fragrant plants, and a universal favorite. If sown at intervals in spring and early summer it will boom until killed by frost. Thrives best in a cool temperature. **Pkt. 5 cts.**

**NASTURTIUM (A).**—Probably the most popular and easily grown flower in our list, and remains longer in bloom. In favorable soil the flowers are produced in abundance throughout the season. Nasturtiums prefer dry, rather rocky soil, such as we usually call "poor" soil, and bear their flowers in such locations in greater profusion than in a rich garden, where they run too much to leaves.

**Dwarf Varieties Mixed.**—This mixture contains all of the choicest and prettiest flowers of the Dwarf variety. The plants form a small, round bush, 12 to 16 inches high, which is a mass of blossoms all summer. **Pkt. 5 cts.; oz. 10 cts.; ¼ lb. 35 cts.; lb. 75 cts.**

**Tall Varieties Mixed.**—This mixture contains all of the choicest and prettiest flowers of the tall variety, are of quick growth, covering a whole hedge or trellis in a short time. The brilliant blossoms almost cover the plant from top to bottom. **Pkt. 5 cts.; oz. 10 cts.; ¼ lb. 25 cts.; lb. 75 cts.**

**PANSY (P).**—No description is needed of these little favorites, and it would be hard to find a garden whose charm is not in a large measure dependent upon their marvelous coloring.

**Superb Pansy Mixture.**—This is a mixture of all the giant flowering varieties, all the plain



colors, faced sorts, ruffled edged and rare sorts, also the varieties exquisitely striped. The seed is saved from the most famous pansy gardens, from exhibition flowers. These pansies are wonderfully beautiful in every way and the very best there are. The small difference in the cost of this seed over the other seed is covered one hundred-fold in satisfactory results to the grower. **Pkt. 20 cts.**

**Giant Trimardeau Mixed**—The largest flowering type of Pansy called the French strain. The top petals are larger than the three lower ones and are beautifully marked. The plants are vigorous, compact growth, with immense, three-blotched flowers. **Pkt. 10 cts.**

**Fine Large Flowering Mixed Pansy**—This seed is saved from very good varieties, the flowers are small in comparison with the fine sorts but the colors are good. **Pkt. 5 cts.**

**PETUNIA (A)**.—There is no bedding plant of easier culture than the Petunia, and few that make a gayer appearance when in full bloom. They are easily grown and very popular for bedding. They thrive best in a warm, sunny location. The shape of the flower is similar to that of the Morning Glory. Sow the seed thinly where the plants are to remain, or for early blooming sow in the house in boxes.

**Single Mixed**.—**Pkt. 5 cts.**

**Double Mixed**.—**Pkt. 10 cts.**

**POPPY (A)**.—Hardly any class of plants afford the same brilliant colorings and showy display. They are of easy culture, the seed being sown where they are to remain. Thin the plants 6 to 12 inches apart.

**Shirley Poppy**.—**Pkt. 10 cts.**

**Tulip Poppy**.—**Pkt. 10 cts.**

**Double Mixed**.—All the fancy and named double varieties mixed. **Pkt. 5 cts.**

**PORTULACA (A)**.—Low-growing or creeping tender annual, 6 to 8 inches high, and bearing glossy, cup-shaped blossoms in very brilliant and gorgeous colors. The seed germinates slowly and should be started under glass or when the weather is hot. These flowers love the sunshine and do best on rather dry ground.

**Mixed**.—This is an extra fine strain with very large blossoms and splendid colors. **Pkt. 5 cts.**

**PHLOX DRUMMONDII (A)**.—One of the prettiest and most popular of garden annuals. Makes very attractive beds, and continues to bloom throughout the summer. Sow in April, in open ground, or can be started earlier indoors.

**Grandiflora Large Flowering Mixed**.—A great improvement on the common type, both heads and florets being nearly twice as large. **Pkt. 10 cts.**

**Extra Choice Mixed**.—This mixture is unexcelled for profusion of bloom and wide range of brilliant colors. **Pkt. 10 cts.**

**PRIMROSE (A)**.—Green-house or pot plants, bearing trusses of large single or double blossoms in bright colors, as well as soft tints. Sow the seed in April or May for winter blooming. **Pkt. 5 cts.**



**Petunia.**

**RICINUS—Castor Oil Plant (A)**.—Luxuriant rapid-growing annuals with palm-like leaves. Excellent for background or centre of beds of foliage plants, the effect being especially striking after the brilliantly colored fruit is formed. **Pkt. 5 cts.**

**SALVIA SPLENDENS—Scarlet Sage (A)**.—A well known favorite bedding plant which bears magnificent spikes of scarlet flowers from July to October. Although perennial, it blooms the first year from seed, and there is really no flower that can rival it in splendid color. Excellent for cutting. **Pkt. 10 cts.**

**SENSITIVE PLANT (Mimosa) (A)**.—Curious and interesting little plants with pinkish white flowers. The leaves close and droop when touched. **Pkt. 5 cts.**

**SCABIOSA (Mourning Bride or Sweet Scabious) (A)**.—Have perfectly double flowers, are useful for cutting, they are gracefully borne upon long tender stems well above the foliage and makes a beautiful cut-flower, height 2 feet. **Pkt. 5 cts.**

**STOCKS, DWARF GERMAN—Ten Weeks (A)**.—Desirable for bedding or pot culture. They bear an immense quantity of fragrant blooms, each plant forming a perfect bouquet, and are splendid for cutting. **Pkt. 10 cts.**

**SUNFLOWER—Mammoth Russian (A)**.—**Pkt. 5 cts.; 1/4 lb. 15 cts.; lb. 25 cts. post-paid.**

See inside front cover page for Bulbs for Spring Planting, Dahlias, Gladiolus, Cannas, Caladiums, Tuberoses.





Sweet Peas.

**SWEET PEAS (A).**—(When ordering pounds by mail, add for postage.) **Pound 10 cts.**

**Superb Mixture.**—This is the best possible mixture that can be made, combining carefully considered proportions. It comprises all of the finest new and large flowering, named varieties of every shade and color. Each is the very choicest of its class, grown separately and mixed by ourselves. It is the finest mixture possible and cannot be surpassed at any price. **Pkt. 5 cts; oz. 10 cts.; ¼ lb. 35 cts.; lb. \$1.25.**

**Superb Strain in Separate Colors—**

White	.....Oz. 15c;	¼ lb. 40c
Blue	.....Oz. 15c;	¼ lb. 40c
Pink	.....Oz. 20c;	¼ lb. 40c
Lavender	....Oz. 20c;	¼ lb. 40c

**Superb Spencer Mixture.**—A new race or type of sweet peas with extra large flowers, fully double the size of the older forms under good cultivation. The Spencers have wavy and fluted-edged petals, which with their rich coloring give an almost orchid-like appearance. The Spencer type will not stand careless cultivation, but if you give them careful cultivation, they will fully repay you for the extra trouble by their exceptional size and beauty. This is a splendid, well-blended mixture of all true Spencer types only. All colors, mixed. **Pkt. 10 cts.; oz. 20 cts.; ¼ lb. 60 cts.; 1 lb. \$2.25.**

**Spencer Sweet Peas in Separate Colors**—Pure red, deep maroon, pure pink, pure white. **Pkt. 10 cts.; oz. 25 cts.; ¼ lb. 75 cts. postpaid.**

**SWEET WILLIAM (P).**—A beautiful class of hardy-free blooming plants of extreme richness and diversity of colors. Produces a fine effect in beds or mixed flower borders. **Pkt. 5 cts.**

**VERBENA (P).**—These well-known flowers are splendid for beds or massing. Flowers of most brilliant colors, blooming from early summer till late in the fall. Verbenas grown from seed are always thrifty and do not rust. Sow early in house, or out of doors in April.

**Pure White.**—Pkt. 10 cts.

**Lavender.**—Pkt. 10 cts.

**Mixed Colors.**—Pkt. 5 cts.

**WALLFLOWER (P).**—This is a fine bedding plant, but it is more often grown as a pot-plant and for this purpose is well adapted. The flowers are very fragrant and usually of various shades of yellow, brown and reddish brown. An old-fashioned flower which is always popular. Sow early in the year in boxes and transplant. **Pkt. 5 cts.**

**ZINNIA (A).**—For gorgeous summer and fall display the Zinnia is unsurpassed, the flowers are perfectly double, resembling Dahlias, and almost every shade of color. For bedding and massing they are particularly suitable.

**Tall Double Mixed Colors.**—Pkt. 5 cts.

**Dwarf Double Mixed Colors.**—Pkt. 5 cts.

## Vines, or Climbers

**CYPRESS VINE.**—A tender climbing annual, with soft fern-like foliage and small star-like flowers. Height about 15 feet. **Pkt. 5 cts.**

**MORNING GLORY.**—One of the most popular of all climbers. They grow rapidly to a height of about 15 feet and bear abundantly brilliant flowers of various colors.

**Mixed Varieties.**—Pkt. 5 cts.

**Imperial Japanese.**—Pkt. 10 cts.

**MOON VINE, or EVENING GLORY.**—Beautiful rapid climbers, bearing large white flowers which open in the evening and on cloudy days. **Pkt. 10 cts.**

**DOLICHOS, or HYACINTH BEANS.**—A tender climbing annual, rapid growth and splendid for covering a trellis. **Pkt. 5 cts.**

## Gourds

**Ornamental Mixed**—Package 5 cts; oz. 20 cts.

**NEST EGG.**—In size color and shape, like a hen's egg. Vines make good screens. **Pkt. 5 cts.**

**DIPPER.**—The handles grow curved if on the ground straight if on a frame. **Pkt. 5 cts.**

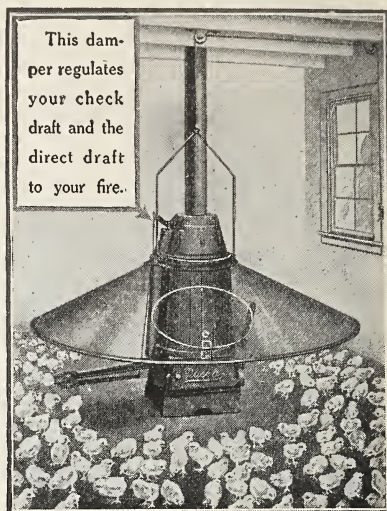


## QUEEN INCUBATORS

### Stop Hatching Weak Chicks!

with cheap incubators. A Queen costs but little more, and the extra chicks that live and grow soon pay the difference.

**Remember,** it is not how many chicks you hatch that counts, but how many you raise. Chicks that hatch out weak and wobbly, and live but a few days, mean nothing to you but trouble and loss. They make one sick of the poultry business. Most of the chicks you lose in the first few weeks die because they did not have, when hatched, the strength or vitality for a good start.



The Queen Brooder.

## Queen Chicks Live and Grow

Queen Incubators are famous the country over for big hatches of strong, healthy chicks that live and grow. The Queen is accurately regulated, keeping the temperature just right for the hatching chick. No hot and cold changes to weaken the chick's system. The Queen is properly insulated—two layers of wood and one of corrugated strawboard, with dead air space. This also helps to maintain an even temperature for the entire hatching period. Both Queen walls are built of genuine California Redwood, which is unusual in these days of imitation and cheap substitution.

Redwood does not absorb the odor from the hatching eggs. Cheaper woods, and pasteboard lining in iron and tin machines, retain the odors, to weaken and kill the hatching chick.

### Sizes and Prices:

No. 1—85 egg capacity.....	\$27.50
No. 2—135 egg capacity.....	37.50
No. 3—180 egg capacity.....	44.50
No. 4—275 egg capacity.....	57.75
No. 5—400 egg capacity.....	68.00

### QUEEN STYLE K INCUBATORS

No. 20—70 egg capacity.....	16.50
No. 21—130 egg capacity.....	27.50
No. 22—220 egg capacity.....	36.75

### QUEEN BROODER STOVES

No. 1—600 chick capacity.....	21.00
No. 2—1200 chick capacity.....	26.50

Ask for QUEEN Catalog Free

### LITTLE PUTNAM STOVE FOR POULTRY FOUNTAINS



This little device will keep the water from freezing in zero weather. It holds 6c worth of oil and burns a month without filling or trimming. Fool-proof and fire-safe. Used under any can, crock or fountain.

Over 80 per cent of an egg is water. To get lots of eggs in winter, you should keep unfrozen water constantly before your fowls. One cold day with water frozen may stop egg production for a month.

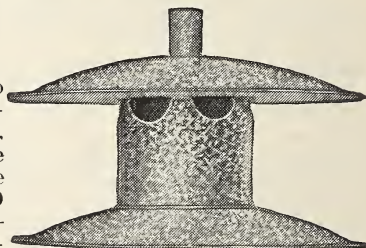
A Little Putnam Stove is also used to heat a home-made oat sprouter. Plans for making sprouter packed with every stove. A 14-year-old boy can build the sprouter in two or three hours with no tools but saw and hammer. The materials required need not cost more than 50c.

Price of Little Putnam Stove, \$2.00.

Illustrated circular on request.

### PUTNAM BROODER HEATER

This is used to heat a home-made brooder, which will take the best of care of from 30 to 60 chicks. Instructions for making brooder packed with every heater. A boy can make the brooder in an hour with saw and hammer. The materials need not cost over 25c.



The Putnam Brooder Heater holds one quart of oil and will burn 10 days without filling or trimming; needs no other attention. The Putnam Brooder can be operated anywhere and in any climate. It is built on the principle of an open fire-place. It carries out the foul and draws in fresh air, providing continuous ventilation. Heat is radiated from above upon the backs of the chicks just as with the mother hen. The floor of the hover is even with the ground; the chicks have no inclines to learn and don't get lost and cold.

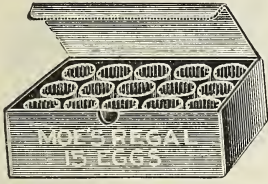
The Putnam Brooder Heater is made of brass and galvanized iron, and it is practically indestructible.

Price of Putnam Brooder Heater, \$4.75.

Illustrated circular on request.



## Poultry Supplies



### REGAL EGG CARRIER.

One of the most practical and safest packages for sending eggs by parcel post, especially recommended for hatching eggs. Price, 15-egg size, 25c each; 30-egg size, 40c each, postage prepaid. Not prepaid, 15-egg size, \$2.40 per doz.; 30-egg size, \$3.75 per doz.

**JUNIOR CHICK FEEDERS.**—A long shaped feeder for baby chicks. Very convenient and sanitary. Price, 30c each, postpaid. Not prepaid, 25c each.

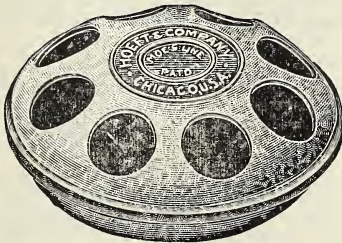
**MEDICATED NEST EGGS.**—A splendid nest egg with lice killing and disinfecting properties. Should not be placed with setting eggs. Price, 75c per doz., postpaid. Not prepaid, 60c per doz.

**REEFERS "MOR EGG" TABLETS.**—A scientifically prepared tablet dissolved in drinking water to increase production of eggs. Highly recommended by users. 50c per pkt., postpaid.

**COLORLED CELLULOID LEG BANDS.**—Made in ring form; all sizes; easily adjusted. Are not numbered. Colors, white, yellow, red, and green. Price, 20c per doz.; 85c per 100, postpaid.

### MOE'S ROUND BABY CHICK FEEDER.

Insures pure food for chicks. A great feed saver, as chicks cannot get into it and contaminate the feed. Small size, No. 11, 25c each; large size, No. 12, 40c each.



**DUPLEX WATER FOUNTAINS.**—A double wall fountain made to last. Made of best heavy sheeting, and will stand rough treatment and abuse better than a single wall fountain. Price, 4-qt. size, \$1.25; 8-qt. size, \$1.50 each.

**CHAMPION LEG BANDS.**—Very neat, light, strong and durable. Easily and quickly put on, and guaranteed to stay. Price, 15c per doz.; 50 for 50c; 100 for 80c, postpaid.

**PERFECT POULTRY MARKER.**—Makes a good clear cut without mutilating the web. Price each, 35c.

Incubator Thermometers tested, 85c each, postpaid.

**LIME NEST EGGS.**—An improvement on the China Nest Egg, as it does not get so extremely cold in the winter. Price, per doz., 35c, postpaid.

**LAMP WICKS.**—For No. "O" Incubator, 20c per doz.; for No. 1-2-3, 25c per doz.

**LAMP BURNERS.**—For No. "O" Incubator, 50c; for No. 1-2-3 Incubator, 65c each.

**CARBOLA.**—A disinfecting germ killing white paint recommended instead of whitewash and disinfectants. Ready to use by adding water. Makes light, sanitary sweet smelling interiors, and kills lice, mites, etc., and prevents spread of contagious diseases. Price, Trial package, 30c; 10-lb. package, \$1.25.

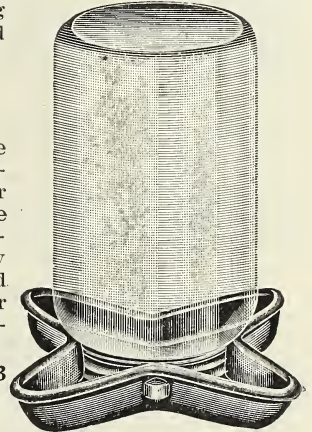


**PEERLESS FOUNTAINS.**—Very serviceable and practical poultry fountain, with detachable bottom, making it easy to clean and keep clean. Can be hung on the well or placed on level ground.

### NO SLOP FOUNTAINS.

This is one of the best, cheapest appliances used as a feeder or fountain. They are durable tin pans, constructed to fit any mason fruit jar, and are used for water or food. Very convenient and practical.

Price, 20c each; 3 for 50c, postpaid.

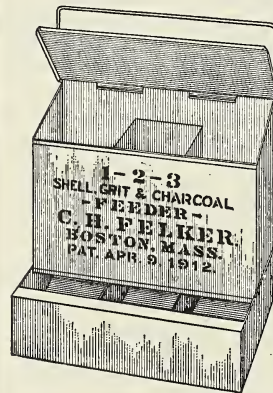


### CYPHERS FOOD HOPPERS.

Made of heavy galvanized iron with two compartments. Price each, \$1.00.

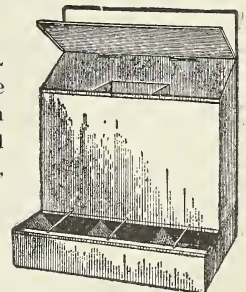
### 1-2-3 FEEDER.

Made of galvanized iron, and so arranged as to have one, two, or three compartments. A very popular and practical feeder. Each, \$1.25.



**1-2-3 GRIT AND SHELL BOX.**—The same as the 1-2-3 feeder, but smaller in size, and especially adapted for feeding beef scrap, shells, charcoal or grit.

Price each, \$1.00.



**A "LITTLE PUTNAM STOVE."**—Keeps poultry drinking water nice and warm during zero weather. Pays for itself in increased egg production. See page 42.



## Poultry and Stock Foods

Prices on stock foods fluctuate. We will gladly quote lowest current prices at all times on request.

**ARCADY SCRATCH FOOD.**—A scientifically prepared scratch food without grit or shell. Contains only clean and high-grade grains, free from dust and chaff. 8-lb. pkg., 35c, postpaid. By express, 8-lb. pkg., 25c; 50-lb. pkg., \$1.25; 100-lb. bag, \$2.25.

**ARCADY CHICK FOOD.**—A complete grain food for chicks up to eight weeks old. Contains only re-cleaned grains with a percentage of granulated bonemeal and charcoal. Produces healthy and rapidly growing chicks. 6-lb. bag, 35c, postpaid. By express, 6-lb. bag, 25c; 50-lb. pkg., \$1.50; 100-lb. bag, \$2.75.

**ARCADY EGG MASH.**—The Lay or Bust food. A complete food for growing fowls and an egg producer for hens. Can be given dry or moistened. 6-lb. bag, 35c, postpaid. By express, 6-lb. bag, 25c; 50-lb. bag, \$1.75; 100-lb. bag, \$3.25.

**ALFALFA MEAL.**—Fresh alfalfa hay ground fine for poultry. Can be used in a mash or alone as a substitute for green grass. 5-lb. pkg., 30c, postpaid. By express, 5-lb. pkg., 25c; 50-lb. pkg., \$1.75; 100-lb. bag, \$3.00.

**MEAT MEAL, or BEEF SCRAP.**—Pure dried ground beef, high in protein, and very essential as an egg producer in winter. 5-lb. pkg., 35c, postpaid. By express, 5-lb. pkg., 25c; 50-lb. bag, \$2.50; 100-lb. bag, \$4.50.

**POULTRY OYSTER SHELLS.**—Re-cleaned and crushed shells for poultry. Ground fine for chicks, or medium for grown fowls. 4-lb. pkg., 25c; 15-lb. pkg., 50c, postpaid. By express, 4-lb. pkg. 10c; 15-lb. pkg. 25c; 100-lb. bag, \$1.

**POULTRY CHARCOAL.**—Aids digestion, promotes health and is indispensable in all poultry yards. Put up in two sizes: fine, for chicks, and medium, for fowls. 2-lb. pkg., 20c; 5-lb. pkg., 40c, postpaid. By express, 2-lb. pkg., 10c; 5-lb. pkg., 25c; 50-lb. bag, \$1.75.

**REFINED FISH MEAL.**—An excellent substitute for beef scrap for poultry. Re-cleaned and purified. 60% protein. Gives splendid results. Price, per 100-lb. bag, \$4.25.

**GRANULATED BONE.**—Pure raw bone, granulated to three sizes: small, medium and large. 4-lb. pkg., 35c, postpaid. By express, 4-lb. pkg., 25c; 50-lb. bag, \$2.75.

**HEMP SEED.**—Largely used for pigeon and bird food. Lb., 15c; 3 lbs., 40c; 10 lbs., \$1.15, postpaid. By express, Lb., 10c; 10 lbs., 90c; 100 lbs., \$8.00.

**SUNFLOWER.**—Rich food for grown fowls and parrots. Lb., 20c; 10 lbs., \$1.50, postpaid. By express, Lb. 15c; 10 lbs., \$1.00.

**KAFFIR CORN.**—Splendid food for all poultry. Especially recommended for pigeons. Per 5 lbs., 30c, postpaid. By express, 6 lbs., 25c; 50 lbs., \$1.50.

**OIL CAKE MEAL (Flax Seed Meal, Old Process).**—Used extensively for all kinds of stock, as a conditioner and tonic. Should be used in every stable. 4-lb. pkg., 25c, postpaid. By express, 4-lb. pkg., 20c; 100-lb. bag, \$3.25.

**SAL VET.**—This is the greatest worm destroyer known to the veterinary profession, and should be used by every one having a cow, horse, hog or sheep. It is not only a sure worm remedy but also a splendid conditioner and tonic. As exclusive agents for this territory, we offer Sal Vet to our customers with an absolute guarantee with each package, or money refunded. 5-lb. pkg., 85c; 15-lb. pkg., \$1.75, postpaid. By express, 15-lb. pkg., \$1.50; 50-lb. keg, \$3.50; 100-lb. keg, \$6.50.

**BLATCHFORD'S CALF MEAL.**—The perfect substitute for milk. Calves are successfully raised and fattened with this calf meal without milk. Recommended and used by all dairymen. 25-lb. bag, \$2.00, postpaid. By express, 25-lb. bag, \$1.50; 100-lb. bag, \$5.50.

**SPRATT'S MIXED BIRD SEED.**—A mixture of the best seeds obtainable. Price, per carton, 25c, postpaid. By express, 20c.

**BITTER LICK SALT BRICK.**—Should be kept constantly before horses and cattle. Each, 35c, postpaid. By express, each 25c.

**SPRATT'S CHICGRAIN.**—This is a carefully selected combination of highest grade meat, grains, seeds, etc., for chicks not sufficiently matured to consume the coarser grains, and forms a perfectly balanced ration. It contains no indigestible food material. Well known and highly recommended by poultry fanciers and breeders of high-grade stock. Pkg., 50c, postpaid. By express, pkg., 40c; per 100-lb. bag, \$6.00; 10-lb. pkg., 75c.

**SPRATT'S CHICKEN MEAL.**—This is a cooked or predigested food, composed of cereals, meat, vegetables and bone, and is the ideal food for baby chicks from one day to two weeks old. Practically eliminates mortality in chicks. Price per pkg., 50c, postpaid. By express, 40c.

**COW SPRAY.**—Keep flies off horses and cattle, will not gum hair. Increases milk flow. Repellant to lice. An effective hog spray. A good poultry house spray. Price: qt. can 50c; half gallon can, 90c; gallon can, \$1.50; 5 gallon can, \$6.25.



# Pratts,

## REGULATORS AND COMPOUNDS POULTRY AND ANIMAL

### Baby Chick Food with Buttermilk

Healthy birds and lots of eggs, the two big things in poultry raising, usually follow the use of

**Pratts,**

#### POULTRY REGULATOR

Packages, 25c, 50c, \$1.10; 12-lb. pails, \$1.65; 25-lb. pails, \$3.00; 100-lb. drums, \$10.00.

It builds up vitality, promotes sound digestion, sharpens appetite, thus helping to put birds into condition for heavy egg laying or winning blue ribbons. Given to breeding stock, it helps increase the fertility of eggs, strong in vitality, that will hatch chicks that will grow. Use it if you want big hatches of healthy chicks that will develop into husky pullets and cockerels.

When baby chicks come, keep them healthy and growing and bring even the weak ones along by feeding

**Pratts,**

#### BABY CHICK FOOD

In small pkgs., also 14, 25, 50 and 100-lb. bags.

A largely predigested baby food for the baby chicks. Guaranteed to raise every livable chick, prevent leg weakness, white diarrhoea, and "pasting up."

Using Pratts Baby Chick Food means Life Insurance for the baby chicks for the critical first three weeks period, at a very small outlay, and guaranteed to give the little fellows a splendid start which will prove the foundation for the development of strong, healthy pullets and cockerels.

Price: 2½-lb. pkg., 25c, or 35c postpaid; 5¾-lb. pkg., 50c, or 60c postpaid; 14-lb. bags, \$1.25, or \$1.45 postpaid. Write for prices on larger quantities.



Don't let ROUP cut your profits. The sure and easy "ounce of prevention" against this dangerously contagious disease is

**Pratts,**

#### TABLETS or POWDER

Price, 25c and 50c.

Quickly absorbed by the blood, helps purify the system, reduce fever, allay inflammation. A safe help for roup, colds, catarrh and many bad weather diseases.

If poultry keepers would regularly spray the chicken houses, roosts, dropping boards and utensils with

**Pratts,**

#### POULTRY DISINFECTANT

most common troubles would vanish.

More powerful than crude carbolic acid. A deodorizer, germicide and liquid lice killer. Use it to aid in the relief of roup, colds and other contagious diseases.

Quart, 55c; ½ gal., 95c; gal., \$1.60.



Get rid of lice on your poultry, in nests, dustbaths, incubators and elsewhere, by using

**Pratts,**

#### POWDERED LICE KILLER

Price, 25c and 50c.

Effective and non-irritating. It quickly kills lice on little chicks, big chicks, setting hens and incubator chicks. It rids horses, cattle, hogs, dogs and cats of lice, and destroys ticks on sheep. It destroys many insects and bugs on vines, plants and flowers.



More work out of your horses, more milk from your cows, fatter hogs—these are a few of the benefits which come from using

**Pratts,**

#### ANIMAL REGULATOR

This is the original and pioneer stock regulator of America. Tested thoroughly for nearly

half a century, its worth is known and recognized by stock owners the world over. Always sold on a guarantee that it will satisfy you or your money back.

25-lb. pails, \$3.40, are popular with our customers. Packages, 25c, 50c, and \$1.00.

Get prices on 50-lb. and 100-lb. sacks.

### Flies! Flies! Flies!!

Tormenting both man and beast. Cutting down the milk yield—weakening horses and other live-stock through trying to fight off these pests. All this worry and loss avoided by using

#### PRATTS FLY CHASER

It's guaranteed to give comfort to cows during milking-time and that means comfort to the milker as well.

PRATTS WHITE DIARRHOEA TABLETS.—25c and 50c. Add 5c per package for postage.

PRATTS SORE HEAD, CHICKEN POX REMEDY.—35c and 70c. Add 5c per package for postage.

PRATTS HOG TONIC.—50c and \$1.00. Add 10c and 15c each for postage.

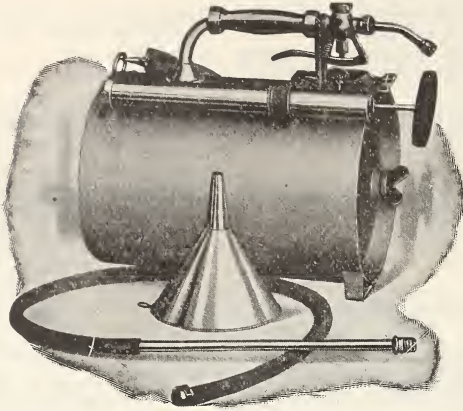
Write for free catalogue on

QUEEN INCUBATORS.

The best machine made. Safe and sure.



## SPRAYS, PUMPS AND DEVICES



**LOWELL FOUNTAIN SPRAYER.**—This is one of the best compressed air spray pumps manufactured, and we not only recommend, but also guarantee it in every way. It has no intricate parts to get out of order. The spray material does not come in contact with the pump; the tank is thoroughly tested to stand the highest pressure, and will drain perfectly with one charge. We especially recommend this pump for spraying potatoes, cabbage, etc. **Price complete**, with spray crook nozzle, 3 ft. hose and 1 ft. long spraying nozzle, funnels for filling and shoulder straps, \$6.00.



### OUR PERFECT BARREL SPRAY PUMP.

This reliable pump is equipped with a seamless brass cylinder, brass rod, brass plunger and brass screw spout: it has a large air chamber and is a pump of great force and power. It has a suction pipe and strainer, and churn dash agitator. This machine gives a full stream, fine mist, medium and coarse spray, as desired, and is unexcelled in its fine work of spraying trees, shrubs, vines, etc. Every farmer, dairyman, poultryman and fruit grower should have one of these pumps on his premises, as it can also be used to such great advantage in whitewashing and disinfecting stables, barns, poultry houses, and in washing windows, vehicles, etc. **Price complete**, with 5 feet heavy hose and 10 feet extension rod, without the barrel, \$20.00.

**NIAGARA HAND DUST GUN;**  
**A PACKAGE OF NIAGARA ALL-**  
**IN-ONE MIXTURE; NIAGARA**  
**GARDEN GUIDE.**—All packed together in a carton ready to go home and put into instant use. A quick, sure and convenient way to relieve yourself of all worries over destruction to vegetables, flowers, shrubbery, house plants, etc., caused by in-

Whether you have one or a hundred—

### "Spray Your Trees"

IF you do not know how or when to spray, write us for information, which will be gladly given.

YOU WILL THANK US

**"THE STANDARD" WHITEWASHING PUMP.**—A simple but effective pump for whitewashing barns, stables, outhouses, etc. Easy to operate; works in any bucket, tub or barrel; also sprays trees, shrubs, etc., to perfection. Throws stream three stories high. Pays for itself in one day's work. Guaranteed to give satisfaction. **Price, \$5.00.**

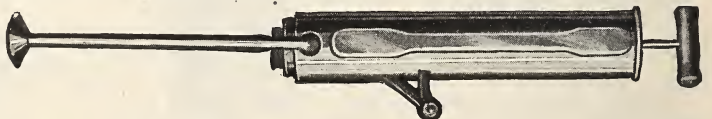
**LOWELL GLASS TANK SPRAYER.**—The best hand sprayer made—durable, easy to handle and operate. Tank is a quart Mason fruit jar, which can be readily replaced if broken. Sprays a fine mist. **Price, each 75c, or 90c postpaid.**

**THE NEW MONARCH DUSTER.**—This duster fills a long-felt need, because it will distribute Arsenate of Lead without a carrier. Tobacco and vegetable growers can now protect their crops from the ravages of all eating insects without danger of burning the plants by using a Monarch Duster and Arsenate of Lead. This duster can also be used effectively for applying dry insecticides to fruit trees by the addition of a few extra joints of pipe. **Price, each \$15.00.**

**"MIDGET" SPRAYER.**—A small, durable, hand sprayer recommended for household use for disinfecting purposes. **Price, each 35c, or 50c postpaid.**

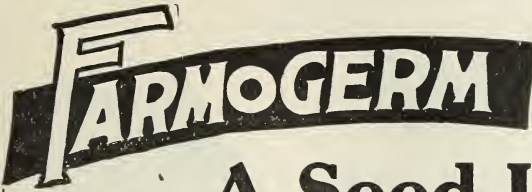
**THE CYCLONE SEED SOWER.**—This is a fine little Seeder at a moderate price. Sows any kind of seed evenly, as well as fertilizer, bone and ashes, and pays for itself in a very short time. **Price, each \$2.50, or \$2.75 postpaid.**

**LITTLE GIANT DUSTER.**—Distributes any dry powder, like Dry Arsenate of Lead, Slug Shot and Paris Green, to perfection. Keeps the poison at a safe distance from the operator, and will dust potato plants as fast as the operator can walk, two rows at a time. One of the best appliances for tobacco growers. By turning a handle a fan is rapidly revolved, distributing the insecticides uniformly on two rows at once, and to all parts of the plant and on both sides of the leaf. **Price, \$11.00.**



jurious pests and diseases. Kills all pests and diseases without the use of water. No mussy chemicals. **Price, complete outfit, \$3.50, or \$3.75 postpaid.**





## A Seed Inoculant that Increases Crop Production

Seeds of all legumes—beans, peas, clover, alfalfa, and related crops—will produce far better if inoculated with **Farmogerm**. In addition to the increased crops, these legumes leave in the soil a heavy deposit of nitrogen which benefits all succeeding crops. Farmers and gardeners who have used **Farmogerm** would not be without it.

### Farmogerm is the "Always Fresh" Seed Inoculant

Because of the method of sealing the bottle—a patented stopper which admits filtered air and keeps out all impurities—**Farmogerm** is just as good in three or four years as when first bottled. The bacteria in **Farmogerm** and other inoculants of like character are living organisms, feeding on nitrogen in the air—without air, they cannot live. If tightly sealed, the bacteria gradually become weaker and weaker until they are worthless. That is why many inoculants have to be replaced before they are six months old.

### Farmogerm Stays Good Indefinitely

**Farmogerm** keeps for years and years. Enough air seeps through the plugs to keep the bacteria in good health, yet all impurities are excluded. Other inoculants get weaker each day—**Farmogerm** always has its full strength. Just add water and shake the bottle and sprinkle over seeds as directed. Your crop will benefit beyond your expectations.

No other inoculant on the market is so strong and virile; no other inoculant will thoroughly inoculate as much seed. The one-acre size bottle of **Farmogerm** is sufficient for 15 pounds of clover, 20 pounds of alfalfa, 100 pounds of Canada field peas, 60 pounds of vetch, etc. A different culture is required for each crop. *Be sure to state what crops you wish to inoculate.*

Be sure to use **FARMoGERM** to advantage on these crops:

Canada Field Peas  
Cow Peas  
Garden Peas  
Sweet Peas  
Soy Beans  
Velvet Beans

Lima Beans  
Wax and String Beans  
Alfalfa  
Spring, Winter and  
Hairy Vetch

Peanuts  
Huban Clover  
Crimson Clover  
Red Clover  
Sweet Clover  
Alsike

### Farmogerm Prices Reduced

New methods of production have given prices. You cannot now afford to do without **Farmogerm**.

A special composite culture is prepared for peas, beans, and sweet peas, — acre size only. You'll get more peas and beans, and larger sweet peas by using this. Ask for No. 5, price 50 cts.

**Farmogerm** prices are: 1-acre size, \$1; 3-acre size, \$2.50; 12-acre size, \$9. Full directions accompany each bottle.



# IRON AGE



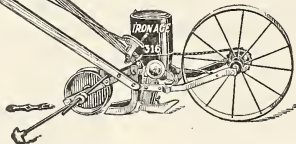
Garden Tools enable you to garden farm-like but without a horse. They need no introduction to farmers and market gardeners who garden for profit, and they are equally known by small gardeners who garden merely for the pleasure of it—folks who want their own fresh vegetables every day.

These tools are pushed ahead, a step and a thrust, while you walk upright. That tiresome back-bending that takes the pleasure out of gardening is done away with entirely. Women, girls and boys use these tools the same as men, and get the same benefits and pleasures from their use. Large, beautiful flower gardens are easily raised the "Iron Age" way.



**No. 316. HILL AND DRILL SEEDER.**—A tool for those who desire a separate machine for each purpose. Always ready for immediate use, no need to change any parts or tools when needed. Can be quickly changed from hill dropper to the drill seeder.

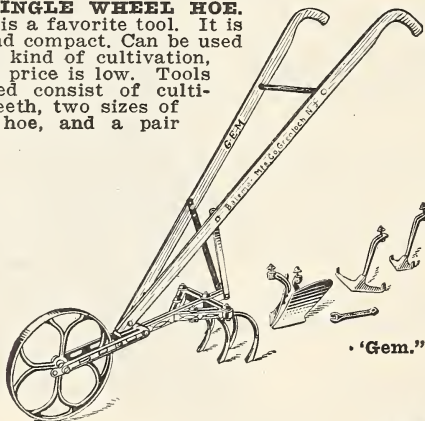
No. 316.



Price .....\$13.50

## GEM SINGLE WHEEL HOE.

—Here is a favorite tool. It is light and compact. Can be used for any kind of cultivation, and the price is low. Tools furnished consist of cultivator teeth, two sizes of scuffle hoe, and a pair of plows.



"Gem."

Price .....\$7.00

**No. 301. SINGLE AND DOUBLE WHEEL HOE.**—An indispensable machine for anyone cultivating a garden. Hoes and cultivates close to plants by running astride the row; also used as a single wheel tool between rows. Makes furrows and covers seed, fertilizer, etc.

No. 301.

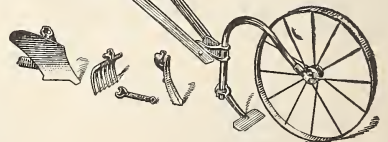


Price .....\$10.00

## No. 12. WHEEL PLOW AND CULTIVATOR.

A practical tool for kitchen garden. Will plow, open and cover furrows, cultivate and ridge. It is light, yet durable. Low priced and within the reach of all. Complete with tools shown.

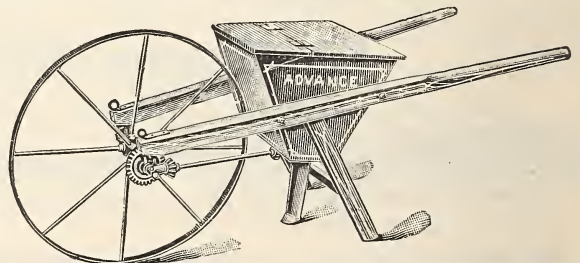
No. 12.



Price .....\$4.00

## "ADVANCE" FERTILIZER AND SEED DRILL

The best low-priced distributor on the market. Also, a first class tool for drilling peas, beans and corn. The distributing disc is galvanized iron and will not break or rust. Hopper holds 18 quarts and is lined at the bottom with galvanized iron. A steel agitator keeps the seed moving, and a lever with thumb nut controls the seed opening. A loop is fastened at each side of the wheel so that a horse can be used—a small boy can operate it easily. The feed is operated by gearing and is positive. A lever throws in and out of gear. The wheel is steel—light, yet strong. We use a high wheel because it runs easier.



Price .....\$9.00  
Packed weight, 50 lbs.



Note change in POTATO PRICES, subject to change

IRISH COBBLERS--\$5.25 per 10 peck bag,  
 HOULTON EARLY ROSE--\$5.25 per 10 peck bag.  
 RED BLISS--\$5.50 per 10 peck bag.

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### FERTILIZERS

Present prices on some of our popular brands of High  
 grade guanos.

AP-A-P--Per 200 lb. bg.-Per Ton

"KONQUEROR"- Market gardener's Spring Pusher	7-5-5	\$4.50	\$42.50
"CAPITAL TRUCK" Truckers Favorite for all vegetable crops	8-4-3	4.00	38.00
"BEACON" A splendid guano for potatoes	9-2-4	3.50	34.00
"MONTICELLO CROP CROWER" A safe trucking guano for potatoes and all vegetable crops	8-3-2	3.50	33.00
"V.C. TOBACCO"-The Standard Guano for tobacco	8-3-3	3.60	34.00
"O.B. SPECIAL"-A favorite for tobacco. Also fine for vegetables and potatoes	9-2½-2	3.40	32.50
"OWL BRAND"-A medium priced guano for general crops	8½-2-2	3.20	30.00
"CHAMPION CORN"-The Standard Corn Guano	10-1¼-1	2.90	27.50
"SPECIAL POTASH MIXTURE" The best Special Fertilizer	10-0-4	2.75	26.00
"ACID PHOSPHATE" 16%		1.95	18.00
"NITRATE OF SODA" Standard Quality		5.75	55.00

PRICES SUBJECT TO CHANGE.

Terms Cash.

Write for special quotations in large quantities.

W. GROSSMANN & SON.

February 7, 1922.



THE CHAIRMAN OF THE BOARD OF DIRECTORS  
OF THE COMPANY  
AND THE BOARD OF DIRECTORS  
OF THE COMPANY

RESOLVED, THAT THE BOARD OF DIRECTORS  
OF THE COMPANY

DO HEREBY CERTIFY THAT THE  
FINANCIAL STATEMENTS OF THE  
COMPANY FOR THE YEAR  
ENDING 1967, AS PREPARED  
BY THE MANAGEMENT, ARE  
TRUE AND CORRECT IN ALL  
MATERIAL RESPECTS, AND  
THAT THE SAME HAVE BEEN  
REVIEWED BY THE BOARD OF  
DIRECTORS, AND THAT THE  
BOARD OF DIRECTORS IS  
NOT AWARE OF ANY  
MATERIAL MISSTATEMENT  
OF FACTS OR MATERIAL  
OMISSIONS OF FACTS  
WHICH WOULD MAKE THE  
FINANCIAL STATEMENTS  
UNRELIABLE.

IN WITNESS WHEREOF, I  
HEREBY SET MY HAND AND  
SEAL OF THE COMPANY  
THIS 15TH DAY OF  
MAY, 1968.

ATTEST:

SECRETARY OF THE COMPANY



# **-:- FERTILIZERS -:-**

We name below a few of our popular brands of High Grade Guanos. Owing to unsettled conditions in the fertilizer market, we are not naming any prices, feeling that we will be in position to offer lower prices, and better inducements to our customers a little later in the season. We shall be glad to hear from our customers, with a list of their requirements of fertilizers, and fertilizer materials, and will use our best efforts to name some especially attractive prices.

## **CAPITAL TRUCK GUANO.**

**Analysis:** Acid Phosphate, 8%; Ammonia, 4%;  
Potash, 3%.

A very high-grade guano, manufactured especially for truckers. Has given exceptionally satisfactory results whenever used. Per 200 lb. bag, —; per ton, —.

## **MONTICELLO CROP GROWER.**

**Analysis:** Acid Phosphate, 8%; Ammonia, 3%;  
Potash, 2%.

Our popular, medium priced, Truck Guano. Recommended for all truck crops, berries, melons, etc. Truckers in this section are very partial to the Monticello, and our sales increase yearly on this brand.

## **MONARCH TOBACCO GROWER.**

**Analysis:** Acid Phosphate, 8%; Ammonia, 3%;  
Potash, 3%.

A guano manufactured especially for our tobacco growers, and considered one of the best tobacco guanos throughout the tobacco belt.

## **V. C. TOBACCO GUANO.**

**Analysis:** Acid Phosphate, 8%; Ammonia, 3%;  
Potash, 3%.

One of the old standard brands, used throughout the tobacco belt with uniform success. Makes friends wherever used.

## **CHAMPION CORN GUANO.**

**Analysis:** Acid Phosphate, 10%; Ammonia, 1¼%;  
Potash, 1%.

Manufactured as a special corn guano, but also largely used by our peanut growers. A good, medium priced guano, for general use.

## **V. C. DISSOLVED BONE AND POTASH.**

**Analysis:** Acid Phosphate, 10%; Ammonia, 0%;  
Potash, 2%.

A Peanut grower, manufactured mainly for this purpose, and which we are glad to be able to again offer to our trade.

## **POCOMOKE GUANO.**

**Analysis:** Acid Phosphate, 8½%; Ammonia, 2%;  
Potash, 2%.

A good, all around fertilizer for all purposes, at a moderate price. Used extensively for truck, for grain and grasses, for corn and peanuts.

## **GROSSMANN'S TRUCK GROWER.**

**Analysis:** Acid Phosphate, 10%; Ammonia, 5%;  
Potash, 2%.

The best of all high grade garden fertilizers. Used extensively by our truckers for pushing Spring crops.

**Analysis:** Acid Phosphate, 10%; Ammonia, 0%;  
Potash, 4%.

Our original Peanut Grower; made possible again on account of our ability to procure a limited amount of potash. Best all around Peanut Fertilizer.

## **NITRATE OF SODA.**

### **ACID PHOSPHATE.**

16% Available.

### **PURE BONE MEAL.**

V. C. Raw Bone—Finely ground, 4½% Ammonia.  
V. C. Steamed Bone—5% Ammonia.

### **PULVERIZED SHEEP MANURE.**

We recommend this finely ground pulverized sheep manure for all crops, being a natural fertilizer—it does not burn or sour on the land. Is quick in action, and effective in results. Recommended especially to our truckers. Pulverized Sheep Manure carries from 1% to 3% of Potash, which makes it especially valuable for this season, owing to the scarcity and very high cost of mineral potash.

### **LAND PLASTER.**

### **HIGH GRADE TOP DRESSER FOR PLANT BEDS.**

A highly ammoniated combination manufactured expressly for Top Dressing Tobacco Plant Beds, insuring rapid and more vigorous growth to the plants. Price, per 5-lb. pkg., 60c; per 10-lb. pkg., \$1.10, postage prepaid. By express, Per 5-lb. pkg., 50c; per 10-lb. pkg., \$1.00.



GROSSMANN'S  
GIANT FLOWERING COSMOS



GROSSMANN'S  
PERMANENT LAWN  
GRASS MIXTURE